# LIST OF PREVIOUS PAPERS PRESENTED AT PROCEEDINGS

# PAKISTAN ENGINEERING CONGRESS

## LIST OF PAPERS PRESENTED AT ANNUAL PROCEEDINGS

*"M" indicates that the Paper was awarded the **Congress Medal***
*"KM" indicates that the paper was awarded the **Kennedy Medal***

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - I - 1913 (1912-14)** | |
| | **(Out of Print)** | |
| 1 | Grain Elevators and their Application to the Punjab Wheat Transport Problem | Victor Bayley |
| 2 | The Formation of Land by Rivers and Torrents in the Punjab | A. J. Wadley |
| 3 | Auxiliary Reservoirs for Irrigation in the Punjab | C. E. Blaker |
| 4 | Dams and Storage Reservoirs | F. W. Schonemann |
| 5 | Concrete Work in New Loco Shops, Lahore | J. A. Bell |
| 6 | Reinforced Concrete Pile Foundations in the West Beyne Bridge | E. A. C. Lister |
| 7 | The Mechanical Equipment of Irrigation Works | John Ashford |
| | **VOLUME - II - 1914 (1914-15)** | |
| | **(Out of Print)** | |
| 8 | The Hindustan - Thibet Road | A. R. Astbury |
| 9 | The Development of Canal Falls for the Production of Artificial Fertilizers | Captain B. C. Battye |
| 10 | Tube Wells | T. A. Miller Brownlie |
| 11 | The Design of Canal Head works | F. W. Schonemann |
| 12 | Maintenance of Marala Weir | Cecil A. Colyer |
| 13 | Duty of Distributaries in Sandy Soils | F. Marshall Purves |
| 14 | Notes on Some Works on the Upper Swat Canal | A. J. Wadley |
| 15 | Some Notes on the Results of River Training in the Punjab | F. J. Harvey. |
| 16 | Notes on the New Road Bridge over the River Ravi at Lahore | D. Macfarlane |
| 17 | Open Fireplaces in Bungalows | F. B. Martin |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - III - 1915 (1915-16)** | |
| | **(Out of Print)** | |
| 18 | The Construction of a Double Track Girder Bridge across the Jumna River on the North - Western Railway between Kalanour and Sarsawa | A. J. Sleigh |
| 19 | Reinforced Concrete Platforms for Carriage Washing at Lahore Station | Captain E. P. Anderson |
| 20 | A Research and Investigation Section for the Public Works Department | Cecil A. Colyer |
| 21 | Temperature Experiments at Lahore | W. S. Dorman |
| 22 | Water Proofing Operations on the Jhang Branch of the Lower Chenab Canal during 1913-14 | T. A. Curry |
| 23 | Some Practical Mathematics of Canal Works | A. J. Wadley |
| 24 | The Training Works on the Sutlej at Rupar | H. W. Nicholson |
| | **VOLUME - IV - 1916 (1916-17)** | |
| | **(Out of Print)** | |
| 25 | The Testing of Bridges. | H. S. Sales |
| 26 | Notes on Efflorescence on Buildings and Structures together with the Means of Combating it. | C. S. Waite. |
| 27 | River Training Works and Diversion of the Sutlej near Bahawalpur. | J. Harford |
| 28 | Distributary Heads and other Canal Diversion Works. | A. S. Gibb |
| 29 | The Design of Head Regulators of Irrigation Distributaries. | F. W. Schonemann |
| 30 | Distributary Off takes in Relation to Silt Conditions | F. V. Elsden |
| | **VOLUME - V - 1917 (1917-18)** | |
| 31 | The Absorption Losses of Punjab Irrigation Canals | F. W. Schonemann |
| M32 | Lining Irrigation Channels | J. A. Curry |
| 33 | The Namal Dam | Lahna Singh |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 34 | Sialkot Water Supply | E. S. Heard |
| 35 | Surface Drainage Schemes in the Punjab | Amar Nath Nanda |
| 36 | Canal Outlets | B. P. Varma |

**VOLUME - VI - 1918 (1918-19)**

**(Out of Print)**

| | | |
|---|---|---|
| 37 | The Extension of American Cotton Cultivation under Irrigation in the Western Punjab and Sindh | W. Roberts |
| 38 | The Subsoil Water Table under the Tracts Irrigated by the Lower Chenab Canal | C. G. May |
| 39 | Water Supply from Tube Wells | T. A. Miller Brownlie |
| 40 | Note on Tube Wells | John Ashford |
| 41 | Exclusion of Heavy Silt from Channels by Vaned Pitching | H. W. King |
| 42 | Reinforced Concrete Siphons on the Lower Swat Canal | F. H. Burkitt |
| 43 | The Distribution of Canal Water with Special Reference to Outlets | J.O. Waterhouse |
| 44 | Alignment Charts | A. C. Padday |

**VOLUME - VII - 1919 (1919-20)**

| | | |
|---|---|---|
| 45 | Highways in the Punjab, Past and Future | W. S. Dorman |
| 46 | Mechanical Filter Installations at Jammu | P. G. Dani |
| 47 | Remodelling Inundation Canals in the Muzaffargarh District | G. W. Duthy |
| 48 | Discharge Observations | W. B. Harvey |
| 49 | Regime Channels | E. S. Lindley |
| 50 | A Project for Providing the Punjab with a Cheap Supply of Electric Power | F. L. Milne |
| M51 | Experiments on Broad Crested Weirs | F. H. Burkitt |
| 52 | Water Logging | Iqbal Hussain |
| 53 | Reinforced Concrete Tanks | R. A. Wallace |
| 54 | An Investigation and Research Institute for the Public Works Department | F. A. Carne |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - VIII - 1920 (1920-21)** | |
| 55 | Liquid Fuel Installation at Kotri, North Western Railway | N. Pearce |
| 56 | Railway Water Supplies | C. B. Barrie |
| 57 | Tube Well in Borstal Central Jail Garden at Lahore | W. S. Dorman |
| 58 | Shortening the Alexandra Bridge over the Chenab River near Wazirabad | F. C. Pavry |
| 59 | Ferro Concrete Well Curbs and Roadway Slabs used on the Chenab Bridge | A. R. B. Armstrong |
| 60 | Kharif Channels | T. M. Bostock |
| 61 | The Design of Regulators for Distributaries | W. P. Thompson |
| 62 | Silt Vanes | H. W. King |
| 63 | Wet Soils and their Behaviour under Loads | Iqbal Hussain |
| 64 | Grades and Curves on Hill Roads | A. R. B. Armstrong |
| M65 | A Few Aspects of the Punjab Road Transport Problem | K. G. Mitchell |
| | **VOLUME - IX - 1921 (1921-22)** | |
| 66 | A Description of the Erection and Operation of Sliding Forms in Grain Elevator Construction | Major. J. K. Wyman |
| 67 | Drains on the Lower Chenab Canal | W. P. Thompson |
| M68 | Water Logging from Irrigation Canals in Alluvial Soil | F. V. Elsden |
| | **VOLUME - X - 1922 (1922-23)** | |
| M69 | The Design and Construction of Light Suspension Bridges | A. St. G. Lyster |
| 70 | Aerial Ropeways | Major F.N. Budden |
| 71 | Supply of Road Metal in the Punjab | G. T. Pound |
| 72 | Sub Soil Water in the Punjab Plains | J. H. T. Middleton |
| 73 | The Electrical Equipment of the North Western Railway Power Station and Workshops at Moghalpura | K. Preston |
| 74 | The Use of Mud in Building Construction | D. Macfarlane |
| 75 | Water Supply Improvements | W. Cathrow |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 76 | Notes on Exhibit of Road Transport Vehicles and Other Plant and Note on Hollow Walls | W. S. Dorman, Major W. Garforth |
| | **VOLUME - XI - 1923 (1923-24)** | |
| 77 | Percolation and Absorption of Water in the Soil | B. H. Wilsdon |
| 78 | Notes on Cracks in Buildings in Dera Ghazi Khan | J. H. Johnston |
| 79 | Notes on the Rusting of Steel in Contact with Lime Mortar | A. R. Astbury |
| 80 | Note on the Locating of a Burst Main | W. E. Buchanan |
| M81 | Application of Modules in Irrigation | E. S. Lindley |
| 82 | Some Problems of High Voltage Transmission in the Lower Himalayas | Lt. Col. B. C. Battye |
| 83a | A Note as to why certain Buildings in the Civil Lines in Ambala have cracked | W. S Dorman |
| | **VOLUME - XII - 1924 (1924-25)** | |
| 83 | Tests carried out on Sand from the Sutlej River and Punjab Portland Cement | A. N. M. Robertson and A. Weighall |
| 84 | Temporary Quarters: No. 1 Division, Khyber Railway | Major. E. P. Anderson |
| 85 | Notes on the Design of Girder Bridge Abutments for Broad – Gauge (5'-6") Track | N. G. Watson |
| 86 | M86 Economic Railway Construction | Major E. P. Anderson |
| 87 | Some Aspects of Track Maintenance and Permanent Way on the North Western Railway | E. Watson |
| 88 | Low Fall Hydro Electric Power Installations | Major John Ashford |
| 89 | Discharge Curve and a Slide Rule | E. S. Lindley |
| 90 | Note on Aerial Photographs of Canal Works exhibited at the 1924 Congress Session | E. S. Lindley |
| | **VOLUME - XIII - 1925 (1925-26)** | |
| 91 | Draglines and the Development of the Single Bucket Excavator | R. Hockney |
| 92 | Some Experiences with a Dragline Excavator | R. P. Hadow |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 93 | The Construction of the Road Bridges over the Chenab and Palkhu at Wazirabad | W. S. Dorman |
| M94 | Analysis of Partly Stiffened Suspension Bridges, Type No. 2F | J. Halcro Johnston |
| 95 | Transportation of Silt by Flowing Water | P. Claxton |
| 96 | Principles of Design for Proportionate Flumes at Heads of Channels | Prabh Singh |
| 97 | Canal Falls and their Uses as Meters | E. S. Lindley |
| | **VOLUME – XIV - 1926 (1926-27)** | |
| 98 | The Sub soil Water Table and Methods for its Investigation | B. H. Wilsdon |
| 99 | A Descriptive Note on the North Western Railway Creosoting Plant at Dhilwan | Wazir Singh Aggarwal |
| 100 | The Relativity of Navigation and Engineering Science | P. Claxton |
| 101 | Design of Canals | Pir Mohamed Ibrahim |
| M102 | Concrete Lining of the Gang (Bikaner) Canal | C. E. Jefferis |
| 103 | Weirs and Headworks on the Sutlej Valley Project and some Connected Problems | E. R. Foy |
| 104 | The Construction of the Rawalpindi City Water Supply Extension Scheme | J. A. R. Bromage |
| 105 | The Metering of Water Supplies | W. E. Buchanan |
| | **VOLUME - XV - 1927 (1927-28)** | |
| 106 | Modern Road Construction | G. T. Pound |
| 107 | Note on Organization of the Government School of Engineering Punjab Rasul | C. E. Blaker |
| 108 | Interlocked Adjustable Module in Precast Reinforced Concrete Units | Ajudhia Nath Khosla |
| 109 | Note on Outlets and Adjustable Proportional Modules | J. D. H. Bedford |
| M110 | Report on Flume Experiments on Sirhind Canal | A. G. C. Fane |
| 111 | The Broad Crested Weir Meter | C. A. Colyer |
| 112 | The Principles of Design of a Dissipator below a Fall | C. A. Colyer |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 113 | Portland Cement | Campbell Gray |
| 114 | Report on Tensile Tests of Various Mortars | C. E. Blaker |
| | **VOLUME - XVI - 1928 (1928-29)** | |
| 115 | Cheap Feeder Railways of 5 feet 6 inches Gauge and the Bahawalnagar Cholistan Railway | T. N. Kunzru |
| 116 | Some Experiences with Diesel Dragline Excavators | J. D. H. Bedford |
| 117 | The Sudan Public Works Department | D. Macfarlane |
| 118 | Water Supplies to Towns in Canal Colonies | J. A. R. Bromage |
| 119 | Inundation Canal Practice | P. Claxton |
| 120 | Reinforced Concrete Bridges on the Sirhind Canal | A. G. C. Fane |
| 121 | Reinforced Concrete through Roofing | Ajudhia Nath Khosla and Kanwar Sain |
| 122 | The Future of Communications in the Punjab | Major H. L. Woodhouse |
| 123 | Bituminous Road Construction in the Punjab | William Stewart Dorman |
| 124 | The Treatment of Waterlogged or Threatened Areas by Changes in Distribution and Supply of Irrigation Water | Bernard Howell Wilsdon |
| | **VOLUME - XVII - 1929 (1929-30)** | |
| M125 | Headless Canal Meters | F. H. Burkitt |
| 126 | Energy of Flowing Water, Critical Flow and Standing Waves | A. M. R. Montague |
| 127 | Extension of the Training Works at the Jumna Bridge near Kalanour (between Saharanpur and Jagadhri) | Rai Sahib D. C. Varma |
| 128 | Scientific Distribution of Canal Water and the Use of Auto-adjusting Orifice Distributors | Radha Krishna Khanna |
| 129 | The Tube Well Practice of the Public Health Circle, P. W. D. Punjab | D. A. Howell |
| 130 | Punjab Building Timbers and Methods of Extraction | H. M. Glover |
| 131 | Locomotive and Drinking Water-Supply on the North Western Railway | J. Vardon |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 132 | The Purchase of Cement for Government Works | A. R. Astbury |
| | **VOLUME - XVIII - 1930 (1930-31)** | |
| 133 | Construction Plant and Methods Used on the Uhl River Hydro Electric Project | Col. B. C. Battye |
| 134 | Hydraulic Observations on the Shyok Flood of 1929 | J. P. Gunn |
| 135 | Erosion in the Punjab Himalayas and its Probable Effect on Water Supplies | L. B. Holland and H.M. Glover |
| 136 | The Survey and Construction of the Kangra Valley Railway | Major R. D. Waghorn |
| 137 | Earth Roads | S. G. Stubbs |
| M138 | Hydraulic Gradients in Sub soil Water Flow in Relation to Stability of Structures Resting on Saturated Soils | Ajudhia Nath Khosla |
| 139 | Some Interesting Tubewells on the North Western Railway | J. Vardon |
| 140 | Exponential Law of Sub soil Flow | Dr. N. K. Bose |
| 141 | Energy Losses over Long Crested Weirs | J. D. H. Bedford and A. M. R. Montagu |
| 142 | Stability of Weirs and Canal Works. An Application of the New Theory of Hydraulic Gradients | Ajudhia Nath Khosla |
| | **VOLUME – XIX - 1931 (1931-32)** | |
| 143 | Materials and Construction of Trunk and Distribution Pipe-lines for Water Supply Using Metal Pipes | D. A. Howell |
| 144 | Recent Practice in Girder Erection on the North - Western Railway | Major C. F. Carson |
| M145 | Construction of a Railway Bridge over the River Indus at Kalabagh | W. D. McD. Cruickshank |
| 146 | Theoretical Design of a New Type of Outlet for Irrigation Channels | K. R. Sharma |
| 147 | Damaged Falls on Khadir Branch of the Pakpattan Canal | E. L. Prothero |
| 148 | Underpinning Satghara Rest House | K. R. Sharma |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 149 | Methods of Calculation and Analysis of Structures Employed on the North Western Railway | Rai Bahadur P. L. Dhawan |
| | **VOLUME - XX - 1932 (1932-33)** | |
| 150 | Some Examples of Control of Floods in Torrents in the Punjab | Rajbansi Lal |
| 151 | A Study of the Internal Economy of Water as Practised by Zemindars on an Outlet on the Upper Bari Doab Canal | J. D. H. Bedford |
| 152 | Tubewells on Zhob Valley Railway, Baluchistan | J. Vardon |
| M153 | Tunnelling in Connection with the Uhl River Hydro Electric Project | G. H. Hunt. R. D. Keane, and N. V. Dorofeeff |
| 154 | Remodelling of Mithalak Distributary | K. R. Sharma |
| 155 | Repairs and Remodelling of Rasul Weir, 1929-31 | T. A. Foy |
| 156 | Girder Erection of the deMontmorency Bridge Across the Jhelum River at Khushab | Capt J. R. Simpson |
| 157 | The Completion of Kalabagh Bridge | F. C. Judges |
| 158 | Pressure Observations at Jaurian and Dugri Siphons | P. A. Turner |
| 159 | Influence Surfaces for Concentrated Loads on Slabs | J. Halcro Johnston |
| | **VOLUME – XXI - 1933 (1933-34)** | |
| 160 | Description of Several Unusual Structures Adopted in Bridge Construction | W. T. Everall |
| 161 | Protection of Upstream Foreshore Mangla Regulator | F. F. Haigh |
| M162 | Pressure Pipe Observation at Panjnad Weir | Ajudhia Nath Khosla |
| 163 | Dissipation of Energy Below Canal Falls | F. F. Haigh |
| 164 | Pipes and Fittings Used in Water Service to Buildings | J. A. R. Bromage |
| 165 | Theory of Earthquake Resisting Design with a Note on Earthquake Resisting Construction in Baluchistan | S. L. Kumar |
| 166 | Uses of Bibliography in Engineering | A. M. R. Montagu |
| 167 | An Optical lever Siltometer | V. I. Vaidhainathan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 168 | Silt Conduction by Irrigation Outlets | K. R. Sharma |
| M169 | Silt Exclusion from Distributaries | H. W. King |
| 170 | Experiments with a Short Crested Weir Model | C. C. Inglis |

**VOLUME – XXII - 1934 (1934-35)**

| | | |
|---|---|---|
| 171 | The Chakki Dalhousie Road | J. Halcro Johnston |
| 172 | Remodelling of Channels on the Lower Bari Doab Canal, Illustrated by Dilwan (15 L) Distributary | S. L. Malhotra |
| 173 | A Study of the Flow of Water under Works on Sand Foundations by Means of Models | E. McKenzie Taylor and Harbans Lal Uppal |
| M174 | Metallic Arc Welding as Applied to Bridges and Allied Structures with Special Reference to the North Western Railway | W. T. Everall and P. S. A. Berridge |
| 175 | Two Notes on Grouting Applied to Bridge Work | J. D. Watson |
| 176 | On the Design of an A. P. M | Pandit K. R. Sharma |
| 177 | The Construction of a Reinforced Concrete Bridge on the Grand Trunk Road over the Bhimber Nallah in Gujrat District on Vibro Pile Foundations | P. L. Varma |

**VOLUME - XXIII - 1935 (1935-36)**

| | | |
|---|---|---|
| 178 | Sillanwali Drain | S.D. Khangar and N. D. Gulhati |
| 179 | Replacement of Gallery No. 826 on the Kalka Simla Railway by a Steel Trestle Bridge | W. A. Anderson |
| 180 | Super Elevation on Highway Curves | Murari Lal |
| 181 | Provision for Temperature and Shrinkage Movements in Cement Concrete Structures (Plain and Reinforced) | Kanwar Sain |
| 182 | Design of Weir on Sand Foundations | F. F. Haigh |
| 183 | The Extension of the River Training Works at Gidarpindi Bridge | G. A. Plank |
| 184 | The Lacey Slope Formula | T. Blench |
| 185 | Pressures Under a Model of Panjnad Weir and under the Prototype | Harbans Lal Uppal |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 186 | The Selection of Electric Motors and Control Gear for Industrial Use | M. F. Thomson |

**VOLUME - XXIV - 1936 (1936-37)**

| | | |
|---|---|---|
| 187 | Scientific Irrigation Channel Design | T. Blench |
| 188 | Water Distribution and Assessment of Revenue at Volumetric Rates | Khushi Ram Erry |
| 189 | A Silt Selective Distributary Head Regulator | Khushi Ram Sharma |
| 190 | Electrical Method for Determining Pressure Distribution under Hydraulic Works | Dr. V. I. Vaidhianathan and Gurdas Ram |
| 191 | Reconditioning of Kankar Roads | Brij Mohan Lal |
| 192 | Silt-Movement and Design of Channels | Dr. N. K. Bose |
| 193 | Concrete Trackway on Lahore - Multan Road (Arterial No. 4) Miles 2 and 3 in Lahore District | Bhikam Singh |
| 194 | Flooding of Rohtak Civil Station in September, 1933 and Measures Taken for Relief and for Future Safety | Kanwar Sain |
| M195 | Reconstruction of the Khanki Weir | Ajudhia Nath Khosla |
| 196 | Pipe Line Penstock, Pipe Tunnels and Surge Shaft on the Mandi Hydro Electric Scheme, Punjab | Capt. N. Boddington |

**VOLUME - XXV - 1937 (1937-38)**

| | | |
|---|---|---|
| M197 | Water Logging on the Upper Chenab Canal, its Causes and Cure | Rai Bahadur Bawa Natha Singh |
| 198 | Agricultural Economics with Special Reference to Irrigation Problems in the Punjab | W. Roberts |
| 199 | The Raising of Jhelum Bridge | T. Mclntyre |
| 200 | The Roads to Kulu | J. Halcro Johnston |
| 201 | Turbulent Flow in Channels | T. Blench |
| 202 | A Note on the Building of Two Reinforced Concrete Box Culverts on the North Western Railway | S. L. Kumar |
| 203 | Some Notes on Gunite and its Uses on Certain Works on the North Western Railway | S. L. Kumar |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 204 | The Deg Diversion and the Combined Head Fall and Aqueduct | B. K. Kapur |
| 205 | A Regulation Gauge for Headless Canal Meters | A. N. Wilson |
| 206 | Quetta Reconstruction Progress 1935-36 | Captain N. Boddington |
| 207 | Experiments of Premix Work in Mile 35 G. T. Road | Murari Lal |

**VOLUME – XXVI - 1938 (1938-39)**

| | | |
|---|---|---|
| 208 | Fundamentals of Rate Fixing for Electrical Undertakings | H. P. Thomas |
| 209 | Some Experiments on Seepage Losses in Irrigation Channels | Nand Gopal and K. R. Sharma |
| 210 | Remodelling Upper Chenab Canal Head Regulator | C. L. Handa |
| 211 | Silt Excluders | F. F. Haigh |
| 212 | Energy Theory of Turbulent Flow in Liquids | T. Blench |
| 213 | Syphon Under Rakh Branch for the Marh Chiniot Drain | S. L. Malhotra |
| 214 | Protection Against Scour Below River and Canal Works | H. L. Uppal |
| M215 | Reconditioning Marala Weir | E. O. Cox and R. B. Ganpat Rai |
| 216 | Conservation of Punjab Water Supplies | Dr. R. M. Gorrie |
| 217 | Earthquake Reconstruction in North Bihar | A. St. G. Lyster |

**VOLUME - XXVII - 1939 (1939-40)**

| | | |
|---|---|---|
| 218 | Diagrams for the Design of an Adjustable Proportional Module | N. D. Gulhati |
| 219 | Rail and Road Competition | F. R. Hawkes |
| 220 | The Water Supply of the Sun Eclipse Fair at Thanesar | D. A. Howell |
| M221 | Lining of the Haveli Main line Canal | R. S. Duncan |
| 222 | Efflorescence in Buildings and a New Method of Cure | Nand Gopal and M. L. Mehta |
| 223 | Re-flooring the Sukkur Channel Bridge | S. L. Kumar |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 224 | Construction of a Concrete Track in Miles 306-310 G. T. Road (Near Lahore) | D. P. Nayar |
| 225 | Intensity of Traffic on Punjab Roads | Brij Mohan Lal |
| 226 | Training Works, River Control and Methods of Regulation at Rupar, Khanki, Marala and Rasul | B. K. Kapur |
| 227 | A Study of the River Conditions on a Model of Khanki Head works and Investigation of Methods for Obtaining Uniform Distribution of Flow and Minimum Silt Entry in the Canal | Harbans Lal Uppal and Thakur Das Gulhati |
| M228 | Finances and Economics of Irrigation Projects | Kanwar Sain |
| 229 | River Diversion at Trimmu | Som Nath Kapur |

**VOLUME - XXVIII - 1940 (1940-41)**

| | | |
|---|---|---|
| M230 | Remodelling Distributaries and Distribution of Water to Areas irrigated by Colony Canals | A. W. M. Jesson |
| 231 | Theory and Physics of Seepage Losses from Canal | K.R. Sharma |
| 232 | Sidhnai Dam Bridge | C. L. Handa and Madan Lal |
| 233 | Shock in Regime Channels | Gerald Lacey |
| 234 | Note on Design and Construction of the Shujabad Branch and its Distributaries | S. L. Malhotra |
| M235 | The Formation and the Reclamation of Thur lands in the Punjab | M. L. Mehta |
| 236 | Flow in Expansions in Open Canals | A. R. Thomas |
| 237 | Improved Adjustable Proportionate Modules and Open Flume Outlets | K. R. Sharma |
| 238 | An Outline of Town Planning | U. A. Coates |
| 239 | Construction of Cement Factory in Patiala State | H. Holman |
| 240 | Lining of Channels | G. R. Sawhney |

**VOLUME - XXIX - 1941 (1941-42)**

| | | |
|---|---|---|
| 241 | Construction of a Road Bridge over the Sohan at Dhok Pathan | G. H. Nangea |
| 242 | Control of Flow on Curves in Open Channels | A. N. Wilson |
| 243 | The Engineering Side of Fire Fighting | Hukam Singh |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 244 | Construction of the Emerson Barrage at Trimmu | S. N. Kapur |
| M245 | Rainfall Runoff | S. D. Khangar and N. D. Gulhati |
| 246 | Some Modern Bituminous Resurfacing Methods | Murari Lal |
| 247 | Investigations of New Railway Schemes | K. B. Nizam ud Din |
| 248 | The Karol Tubewell Scheme | H. L. Wadhera and A. R. Talwar |
| 249 | Hydraulics of Irrigation Channels | Ishar Das |
| 250 | Rational Concrete Mixes Compared to Arbitrary Mixes Using Typical Punjab River Sand and Gravel | H. Holman |

**VOLUME - XXX - 1942 (1942-43)**

| | | |
|---|---|---|
| M251 | The Kalabagh Barrage | S.I. Mahbub |
| 252 | Design of Channels in Alluvium | N. K. Bose and K. R. Erry |
| 253 | Observations on Lined (Haveli) Canals | S. N. Kapur |
| 254 | Waterway Required under Bridges with Special Reference to the Rohi Beas Bridge on North Western Railway | Karnail Singh and Gurdial Singh |
| 255 | Effect of Capillarity on Drainage in Waterlogged Areas | V. I. Vaidhianathan and Chanan Singh |
| 256 | Soil Stabilization as applied to Roads in India | S. R. Mehra |
| 257 | Densification of Canal Banks | S. I. Mahbub |
| 258 | Electric Transmission Tower | R. C. Talwar |

**VOLUME - XXXI - 1943 (1943-44)**

| | | |
|---|---|---|
| 259 | Water Requirements of Crops | H. R. Stewart |
| KM260 | Lining of Channels | S. I. Mahbub |
| M261 | Construction of a Motor Road Round Simla | W. A. R. Baker and Balwant Singh |
| 262 | Air Raid Protection for Buildings | N. B. Shroff |
| 263 | A New Treatment of the Principles of Flow | P. Claxton |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - XXXII - 1944 (1944-45)** | |
| M264 | Irrigation Outlets | S. I. Mahbub and N. D. Gulhati |
| 265 | Hydraulic Research Station Malikpur | H. L. Uppal |
| 266 | Modern System of Training Artisans and Technical Personnel | H. B. Adams |
| M267 | Chief Considerations Affecting the Design and Usage of Railway Sleepers in India | S. L. Kumar |
| 268 | Preliminary Investigation for Storage Schemes | S. D. Khangar and B. R. Palta |
| 269 | Soil Compaction as Applied to Airfield Construction and Stability of Runway Slabs in High Spring Level Areas | C. L. Handa |
| 270 | Construction of Aerodromes in the Punjab | A. R. Khanna |
| | **VOLUME – XXXIII - 1945 (1945-46)** | |
| 271 | Behaviour of Drift Sand and Method of Dealing with it | M. A. Rahim |
| 272 | Methods of Discharge Observations | S. L. Malhotra |
| 273 | Modern Features of Road Design | W. A. R. Baker |
| 274 | Recent Road Construction and Proposed Future Development in the Punjab | Brij Mohan Lal and R. N. Dogra |
| 275 | River Training and Control by Pitched Islands | A. M. R. Montagu and Dr. H. L. Uppal |
| | **VOLUME – XXXIV - 1946 (1946-47)** | |
| 276 | Engineering Economics of the Design and Construction of Dams | S. I. Mahbub and C. L. Handa |
| 277 | Silting Tanks on the Western Jumna Canal | Rai Bahadur H. L. Vadera |
| 278 | Principles of Well - Foundations, River Training and Protection Works | R. O. C. Thomson |
| 279 | Determination of Runoff from Rainfall on Punjab Torrents | R. B. Kanwar Sain, and I. P. Kapila |
| 280 | Design of Rails | R. P. Lall |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 281 | Damages Caused on Kangra Valley Road by Floods of August 1944 and their Restoration | R. L. Sondhi and G. C. Khanna |
| | **VOLUME - XXXV - 1947 (1947-48)** | |
| 282 | Hydrologic Data-Its Importance and Collection | N. D. Gulhati |
| 283 | Construction of Grain Storage Bins in the Punjab | D. P. Nayar |
| 284 | Water Logging in Western Punjab | Rai Bahadur S. D. Khangar |
| 285 | Movement of Moisture in Soils | Dr. A. G. Asghar |
| 286 | Improvements to Delhi and Lahore Stations | Y. P. Kulkarni and Gurdial Singh |
| 286(1) | Engineering Education in the Punjab | L. A. Freak |
| | **VOLUME - XXXVI - 1951 (1949-51)** | |
| 287 | Present Knowledge about Factors Influencing the Discharge of a Tubewell | Dr. Nazir Ahmad |
| 288 | Corrosion Control Investigation at Attleboro Massachusetts (USA) | S. Irshad Husain |
| 289 | Some Aspects of the Design of Weirs or Canal Falls in Relation to Scour | Dr. Mushtaq Ahmad |
| M290 | Studies in Lysimeters | Dr. A. G. Asghar |
| | Part-I Influence of the Pellicular Zone on the Proportion of Surface Application | |
| | Reaching the Sub-soil | |
| | Part-II Construction of Lysimeters and Building up of Soil Profiles | Dr. A. G. Asghar and H. S. Zaidi |
| | Part-III Influence of Surface Application on the Sub-soil Watertable under Different Crops | Dr. A. G. Asghar, H. S. Zaidi and M. A. Qayyum |
| 291 | Consolidation of Reclamation Operation | Dr. A. G. Asghar and Muhammad Shafi Sandhu |
| 292 | Flood Control Investigations in West Pakistan | M. A. Rahim, I. A. Zafar and S. M. Niaz |
| 293 | Liquid Flow and Silt Transport | Pir Muhammad Ibrahim |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - XXXVII - 1952 (1951-52)** | |
| M294 | Observation, Record and Analysis of Pressure Pipe Data of Weirs on Permeable Foundations | Dr. Mushtaq Ahmad |
| 295 | Analysis of Heavy Rainfall in Short Periods at Lahore | Dr. S. N. Naqvi |
| 296 | Cheap Specifications Adopted for the Construction of Multan Bosan Road | Ghias ud Din Habib |
| 297 | Planning Hydro Electric Development in Pakistan | S. S. Kirmani |
| 298 | Sub Aqueous Construction Methods Adopted during the Execution of the Lahore Sewerage Scheme | Syed Irshad Husain |
| 299 | Flow Lines through Embankment with Hetrogeneous and Stratified Medium | Dr. Nazir Ahmad |
| M300 | Engineering Planning for Industrial Development in Pakistan | I. A. Zafar |
| | **VOLUME - XXXVIII - 1954(1952-54)** | |
| 301 | On Silting of Distribution and Factors Affecting Sediment Exclusion from Canals | Pir Muhammad Ibrahim and Dr. Mushtaq Ahmad |
| 302 | Stability of Earth Dams | Mohammad Nazir and J. A. Parvez |
| 303 | Some Salient Features of the Construction of Nishtar Medical College and Hospital at Multan | G. D. Habib |
| 304 | The Design and Construction of Irrigation Structures Some Important Factors | S. S. Kirmani |
| 305 | Groundwater Flow Around a Well Installed in Rechna Doab | Muhammad Nazir and Dr. Nazir Ahmad |
| 306 | General Design Principles and Preliminary Selection of Turbine Units for a Low Head Hydro Electric Development | Mohammad Nazir |
| M307 | Construction Aspects of Balloki Suleimanki Link | S. Allah Baksh and M. Muzaffar Ahmad |
| 308 | Restoration of Flood Damages to the Deg Nala Bridge | S. Mukhtar Ahmad |
| 309 | River Training Works of Empress Bridge Adamwahan | M. A. Wahidi |
| 310 | Tests of bs Theory | Abdul Latif |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 311 | Behaviour of Saline Alkaline Punjab Soils Reclamation | Dr. A. G. Asghar and M. A. Hafeez Khan |
| 312 | Drainage of Irrigated Soils in Arid Region | Dr. A. G. Asghar and Dr. Nazir Ahmad |
| 313 | Water Allowance for Reclamation in High Watertable Areas | Dr. A. G. Asghar and Ch. Mohammad Ata ur Rehman |
| 314 | Planning of Tubewell Projects | I. A. Zafar |

**VOLUME – XL - 1956 (1955-56)**

| | | |
|---|---|---|
| M315 (A) | Studies in Some Hydraulic Features of the Design of Taunsa Barrage | Dr. Mushtaq Ahmad |
| M315 (B) | Studies in Some Hydraulic Features of the Design of Taunsa Barrage | Dr. Mushtaq Ahmad, Abdul Latif and Ch. Muhammad Ali |
| 316 | Foundation Investigations and Salient Features of the Design of Chichoki Power House Raft | S. Irshad Ahmad and Jamil Asghar |
| 317 | The Design and Construction of Deg Supper Passage on Marala Ravi Link | S. M. Niaz and Nafis Ahmad |
| 318 | Development of Foundation for Transmission Line Towers | R. A. Sheikh |
| 319 | Specific Discharge Gauges of Chenab River Sites | Abdul Latif |
| 320 | Foundation Treatment of the Baran Dam of Kurram Garhi Multipurposes Scheme, Bannu | D. M. Khanzada |
| 321 | Commercial and Industrial Uses of Kallar | Dr. A. G. Asghar |
| 322 | Foundation Problems at Karnafuli Project East Pakistan | Khawja Azeem ud Din |

**VOLUME - XLI - 1957 (1956-57)**

| | | |
|---|---|---|
| 323 | Use of Indigenous Sulphur for Lowering Soil Alkalinity | Dr. A. G. Asghar, Abdul Hamid and M. Abdullah |
| 324 | Influence Line for Continuous Concrete Bridges | A. A. Jamal ud Din |
| 325 | Sedimentation of Reservoirs on Indus River System | Nazir Ahmad and Abdul Hamid |
| 326 | Chuharkana Aquifer Test | Sayyid Hamid and M. S. Minhas |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 327 | Studies in Some Hydraulic Features of the Design of Taunsa Barrage Part III | Dr. Mushtaq Ahmad and Muhammad Ali |

**VOLUME - XLII - 1958 (1957-58)**

| | | |
|---|---|---|
| 328 | Use of Pre Concreted Reinforcement in Slabs | Khan Mohammad Azam Khan |
| M329 | The Phenomena of Losses and Gains in the Indus River System | S. S. Kirmani |
| 330 | Working the Right Bays of Balloki Barrage | Ahmad Tariq and Sarfraz K. Malik |
| 331 | Lessons from the Failure of Tando Masti Khan Fall | Abdul Latif Mirza |
| 332 | Regirdering Ravi Bridge at Abdul Hakim | Mir Ghulam Sarwar |
| 333 | The Planning and Design of Modern Stadiums | Mohammad Ashraf |
| 334 | Training of River Loops and Currents on Head Works | S. Allah Bakhsh Khan |
| 335 | A Study of Thermal Properties of some of the Locally Available Building Materials to Improve the Summer Comfort in Residential Buildings | Khan Mohammad Azam Khan and Syed Irshad Hussain |

**VOLUME - XLIII - 1959 (1958-59)**

| | | |
|---|---|---|
| 336 | Sediment Problems in the Indus Basin | S. S. Kirmani |
| 337 | Cofferdams for the Warsak Dam | Saeed Minhas |
| 338 | Stress and Stability Analysis of Warsak Dam | Asrar A. Qureshy |
| M339 | Dewatering of Foundation | Dr. Nazir Ahmad and Zia ul Haq |
| 340 | Some Aspects of Design of Flexible Pavements in West Pakistan | Mazhar ul Haq Saeed Ahmad |

**VOLUME - XLIV - 1960 (1959-60)**

| | | |
|---|---|---|
| 341 | Sediment Exclusion Methods and Devices at the Intake of Canals | Dr. Mushtaq Ahmad, Mohammad Ali and Abdul Khaliq |
| 342 | Saline Characteristics of Waters in old Canal Colonies of West Pakistan | Dr. A. G. Asghar and Abdul Hamid |
| 343 | Diverting River Indus Through Taunsa Barrage | Mirza Mohammad Said |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 344 | A Stable and Impervious Lining for Canals of West Pakistan | Dr. Nazir Ahmad and Abdur Razzaq |
| 345 | Construction Economy through Engineering Research and Design | I. A. Zafar |

**VOLUME - XLV - 1961 (1960-61)**

| | | |
|---|---|---|
| 346 | Fish Ladders or Fish Ways | Mushtaq Ahmad and Said Ahmad |
| 347 | Sediment Transportation by Running Water and the Design of Stable Channels in Alluvial Soil | Prof. Ir. H. Vlugter |
| 348 | Rational Pattern of Sewage and Waste Disposal in Pakistan Part I | Sheikh Abdur Rawoof and Sheikh Rafi Ahmad |
| 349 | Diversion of Jammu Tawi and Protection of Upper Marginal Bund at Marala Headworks | B. A. Ghani |
| 350 | Silt Carrying Capacity of a Channel and Criteria for Canal Closure Against Excessive Silt Entry | Mushtaq Ahmad and Abdul Rehman |

**VOLUME - XLVI - 1962 (1961-62)**

| | | |
|---|---|---|
| KM351 | Design of Alluvial Channels as Influenced by Sediment Charge | Dr. Mushtaq Ahmad and Ch. Abdul Rahman |
| M352 | Artificial Cut off at Islam Headworks | Khalid Mahmood and Abdul Basit Akhtar |
| 353 | Prestressed Concrete Road Bridge at Wazirabad | Muhammad Aslam |
| 354 | Hydrological Studies on Zhob River and Streams of the Kachhi Plain | Sarfraz Khan Malik |

**VOLUME - XLVII - 1963 (1962-63)**

| | | |
|---|---|---|
| 355 | Design of Silt - Stable Canals | S. S. Kirmani |
| 356 | Appraisal and Analysis of New Data from Alluvial Canals of West Pakistan in Relation of Regime Concepts and Formulae | Dr Mushtaq Ahmad and A. Rehman |
| 357 | The Regime Concept and the River Nile | Gerald Lacey |
| 358 | Structural Analysis and Design of Multistoreyed Framed Buildings | Ghias-ud-Din Habib |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 359 | Inland Navigation in West Pakistan - A Few Proposals | Mohi-ud-Din Khan |
| 360 | Alternative Proposals for Remodeling Marala Headworks | H. J. Asar |
| 361 | Influence of Parapet Walls on the Ventilation of Roof | Mian M. Hanif |
| 362 | Some Recent Trends in Barrage Design on Alluvial Rivers in Pakistan | Mohi-ud-Din Khan |

**VOLUME - XLVIII - 1965 (1963-65)**

**Golden Jubilee Publication**

| | | |
|---|---|---|
| 363 | Slurry Trench Method of Cut-off | Ramiz Ahmed Malik |
| 364 | Marala Headworks Site Investigation | H. J. Asar |
| M365 | The Engineering Profession in Pakistan | S. S. Kirmani |
| 366 | Village Electrification Through Micro Power Plants on Canal Falls | Mohi ud Din Khan |
| 367 | Design of a New Road Bridge over Jhelum River Near Jhelum | Abdus Salam |
| 368 | An Estimate of Evaporation from Free Water Surface in West Pakistan | Nazir Ahmad, Mohammad Sarfraz and Mohammad Akram |
| 369 | Operating Bambanwala Ravi Bedian Depalpur Link Canal in 1961 | Mohammad Ali Chaudhry |
| 370 | Highway Financing in Pakistan | Saleem Akhtar Bhalli and Muzaffar Iqbal Sheikh |
| 371 | Financial Planning of Water Supply Schemes | Iqbal Ahmed Beg |

**VOLUME - XLIX - 1966 (1965-66)**

| | | |
|---|---|---|
| 372 | Diversion of the River Jhelum at Mangla | Mehtab Khan |
| 373 | Electric Traction on Pakistan Western Railway | S. H. Nawab |
| 374 | Pumping Installation for the Warsak Lift Irrigation Scheme | Khan Sarwar Jan Khan |
| 375 | Remodelling Balloki Headworks | Rana Muhammad Aslam Chohan |
| 376 | The Sunshade Table | Ashfaq Hasan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| M377 | A Study of the Effect of Suspension Parameters of Ride Index of a Railway Vehicle and Results of Trials on the Pakistan Western Railway | M. Z. Mozaffar |
| 378 | Earthwork on Irrigation Works in the Land of the Indus | Mazhar Ali |
| 379 | The Need for a Sound Housing Policy in West Pakistan | S. Sibt-i-Hassan |
| 380 | Determination of Firm Generating Capacity | A. Rahimtoola |
| | **VOLUME - L - 1968 (1967-68)** | |
| 381 | WAPDA Northern Grid System Need for Peaking Generating Capability 1970 - 75 | A. Rahimtoola |
| 382 | A Steel Industry for Pakistan: An Appreciation | S. Shafqat Ali |
| 383 | Experimental Use of Hydrated Lime in Road Construction | Tajamal Hussain Qureshi, and Hashmat Ali |
| 384 | Scientific Land and Water Use for Increased Production in West Pakistan | Ch. Muhammad Hussain |
| 385 | Design and Construction of Chichawatni Bridge | Abdus Salam and S. U. Qureshi |
| 386 | Road Problems in Slip Affected Areas | M. A. Waheed and Muzaffar Iqbal Sheikh |
| 387 | Immunisation of Signalling Equipment in Connection with Electrification of Lahore - Khanewal Section of Pakistan Western Railway | M. H. Bhaur |
| 388 | Crushed Brick in Road Construction | Mazhar-ul-Haq Saeed Ahmad |
| 389 | Adaptation of Equiangular Spiral as an Open Channel Curve | Khalid Mahmood |
| M390 | Structural Investigations of Sukkur Barrage Arches | Mazhar Ali |
| | **VOLUME - LI - 1969 (1968-69)** | |
| 391 | Technical Appraisal of Salinity Control and Reclamation Project - 1 with Reference to Decline of Water Level | Ch. Ata-ur-Rehman |
| 392 | Railway Electrification (Power Supply System) | Dr. F. A. Hamdani |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 393 | Design Aspects of Municipal Water Supply Pilot Projects | Syed Arshad Ali |
| 394 | Land and Water Management in West Pakistan | Ch. Muhammad Hussain |
| 395 | Some Methods of Computing Retrogression in Channels Due to Change in Sediment Charge | Mushtaq Ahmad and A. Rehman |
| 396 | Recording of Temperature Changes Inside the Concrete of Sukkur Barrage Arches | Dr. Nazir Ahmad |
| 397 | Design and Construction of Sutlej Bridge | Abdus Salam and Abdul Waheed Choudhry |

**VOLUME - LII - 1971 (1970-71)**

| | | |
|---|---|---|
| 398 | Rasul Barrage | Rana Mohammad Aslam Chohan |
| 399 | Marala Barrage Investigations for High Uplift Pressures under the Downstream Floor | Ramiz Ahmad Malik |
| 400 | Model Tests for Assessing the Causes of Excess Uplift Pressure under Downstream Floor of Bays No. 31-40 of Marala Barrage and Remedial Measures | S. M. Ayoob and Ch. Mohammad Ali |
| 401 | Design of a Two Miles Long Irrigation Tunnel for Khanpur Dam Project | S. Khalid Asmi and A. Aziz |
| 402 | West Pakistan 500KV Super Grid | Mahmood Ahmad Cheema |
| 403 | Distribution System Protection and Safety | Javid Akhtar |
| 404 | Surveying and Mapping for Road | Saleem Akhter Bhalli |

**VOLUME - LIII - 1972 (1971-72)**

| | | |
|---|---|---|
| 405 | Energy Dissipation and Expansion of Flow in Sharp Divergence Below a Flumed Fall | S. M. Ayoob and Ch. Mohammad Ali |
| 406 | Evaluation of Well Performance and Water Management of Mona Reclamation. Experimental Project (1965-1970) | Ch. Ata ur Rehman |
| 407 | A Few Suggestions to Conserve Flood Run off and to Recover Fresh Water From the Saline Water Zones of the Indus Plains | Dr. Nazir Ahmad |
| 408 | Case Study on Use of Natural Gas for Power Generation in Pakistan | A. U. Loan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 409 | Failure and Reconstruction of Sukhbeas Syphon on Balloki Suleimanki Link I | R. K. Anver and S. M. Ismail |
| 410 | .Construction of Tarbela Dam Project | S. A. Hussaini |
| 411 | Modern Practice in Surface Dressing | Abdus Salam |
| 412 | Problems of Medium Voltage Earthing Practice in a Developing Power System | Mian Fazal Ahmad |

**VOLUME - LIV - 1974 (1972-74)**

| | | |
|---|---|---|
| M413 | Panjnad Headworks after 1973 Floods | Mohammad Aslam Chohan |
| 414 | Limit State Design of Reinforced Concrete Structures | Dr. Khalid Mahmood |
| 415 | A Review Report on Collapsible Soils for the Design and Construction of Roads | Syed Fayyaz Ali Shah and Hashmat Ali |
| 416 | Dominant Problems in the Design of Harbour Structures on Mekran Coast | Dr. Javed Yunas Uppal and Izzat Ullah Sheikh |
| 417 | Public Sector: Its Organization and Management | Amanullah Khan |
| 418 | Design Standards for Water Supply Schemes in Pakistan | Iqbal Ahmad Beg. |
| 419 | A Comparative Study of Five Approximate Methods of Computing Uplift Pressures, Exit Gradient and Seepage Rate Under Hydraulic Structures on Permeable Foundations | Dr. Mushtaq Ahmad |

**VOLUME - LV - 1975 (1974-75)**

| | | |
|---|---|---|
| 420 | Problems and Needs of Engineering Education in Pakistan | Prof. Dr. M. Islam Sheikh |
| 421 | Towards Higher Productivity | Amanullah Khan |
| 422 | Variation of Loss with Specimen size of Alcomex III at 50 HZ Excitation | Parvez Rashid |
| 423 | Selection of Hydraulic Machines for SCARP Tube Wells | Sardar Allah Bakhsh and Dr. Akmal Hussain |
| 424 | Economics of Mechanization with Reference to Earthmoving Operation in Pakistan | S. Nisarul Haque |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 425 | A Computer Program for Raft Analysis with Specific Reference to WAPDA House Raft Foundation | Dr. Javed Yunas Uppal and Dr. M. Talib Chaudhry |
| 426 | Breakthrough in Development - An Imperative for Pakistan's Future | Imtiaz Ali Qazilbash |
| 427 | Traffic Organization in Pakistan | M. Sadiq Swatl |
| 428 | Alignment and Shape of a Spur Head | S. M. Ayoob and Ch. Muhammad Ali |
| 429 | An Appraisal of Rural Electrification in Pakistan | Mian Fazal Ahmad |
| 430 | Some Problems of Technology Transfer | Engr. Masood Hasan |

**VOLUME - LVI - 1978 (1977-78)**

| | | |
|---|---|---|
| 431 | Hydraulic Design Features of Outlet Works for Tarbela Left Bank Irrigation Tunnel | M. Aslam Rasheed and Bashir Ahmad |
| 432 | Controlling Marine Bifouling | Dr. Amjad Parvez Sheikh and Chaudhry Mohammad Abdullah |
| 433 | Hydrologic Design of Sukh Beas Surface Drainage Project | Mian Barkat Ali, S. N. H. Mashhadi and Maqsood Ahmad Malik |
| 434 | Some Aspects of Hydraulics of Bridge Water Ways | S. M. Ayoob and Ch. Muhammad Ali |
| 435 | Rawalpindi Earthquake Feb. 14, 1977 | N. Z. Adhami and Mansur Ahmad |
| 436 | Wind Generated Waves and their Effects on River Bunds | Syed Mansoob Ali Zaidi |
| 437 | Construction of Prilling Towers with Slipform at Pakarab Fertilizers Factory, Multan | Mian M. Hanif |
| 438 | Wind Effect Study on An Ogival Masjid Dome | Shaikh Wajeehuddin, Bakhtiar Ali and Mohammad Azim |
| 439 | Design of Earthen Dikes | Tahir A. Malik |

**VOLUME - LVII - 1980 (1978-80)**

| | | |
|---|---|---|
| 440 | Severity of Water Logging and Salinity Problem in Pakistan | Dr. S. M. H. Bokhari |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 441 | Pre-fabricated Gypsum Boards | S. Sibtul Hassan Shah and Ali Muhammad |
| 442 | Comparison of Load Following Capabilities of Various Types of Commercially Proven Nuclear Power Plants and Their Impacts on the Grid System Reliabilities | Dr. S. M. Bhutta and Prof. Ir. F. R. Vanmassenhove |
| 443 | Water Table Depletion, Non Steady Flow to Wells Effects of Soil Evaporation | Muhammad Saleem |
| 444 | Construction and Working of Spurs for Protection of B. R. B. D. Link Canal | Ahmad Tariq, Khursheed Mahmud and Riaz Ahmad |
| 445 | Irrigation System in Pakistan: Measures to Improve Irrigation Efficiency at the Farm Level | I. A. Khaliq |
| 446 | Irrigation Requirements of Crops in the Punjab | Abdur Rehman, Nur ud Din Ahmad and Muhammad Akram |
| 447 | Fading on Indus Valley Microwave Link | Muhammad Javed |
| 448 | Supply of Drinking Water to Rural Population | A. N. Cheema |

**VOLUME - LVIII - 1982 (1981-82)**

| | | |
|---|---|---|
| 449 | Performance Analysis of Scarp – 1 | Engr. Dr. N. M. Awan and Engr. Mohammad Latif |
| 450 | Role of Management, Training and Research in Rail - Road Operations | Engr. Mian Ghias-ud-Din |
| 451 | Addition to Guddu Thermal Power Station | Engr. M. Hussain Ali |
| 452 | Design and Construction of Simly Dam | Dr. Izhar-ul-Haq |
| 453 | An Estimate of Water Loss by Evaporation in Pakistan | Dr. Nazir Ahmad |
| 454 | Flushing Operations of Warsak Reservoir Sediment | M. R. Chaudhry |
| 455 | Third IRBD Highway Project | Engr. E. I. Johri |
| M456 | Construction of River Training Works on the Left Bank of River Ravi from Babu Sabu to Chung near Lahore | Syed Mansoob Ali Zaidi |
| 457 | Utilizing Gypsum for the Agricultural Development of Pakistan | Dr. Amjad Parvez Sheikh |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - LIX - 1983 (1983-84)** | |
| 458 | Concept, Planning and Design of Khairwala Drainage Project | Syed Mansoob Ali Zaidi |
| M459 | A Study on Dieselization of Sibi Khost Section with GEU15 and GMU15 Group IV Diesel Locomotives | Engr. Mian Ghias ud Din |
| 460 | Improvement of Bearing Capacity for Foundations of Kotri Gas Turbines Extension Project | M. R. Chaudhry |
| 461 | Khanpur Dam Project | Dr. Izhar-ul-Haq |
| 462 | Hydrologic Evaluation of Marh-Chiniot Surface Drainage System Design | Engr. Dr. N. M. Awan and Engr. Saleem Bashir |
| 463 | Selection of Busbar Schemes for Grid Stations, a Mathematical and Graphic Approach | Engr. Mohammad Irfan Akhtar |
| 464 | Pumped Storage as Peaking Station in an Interconnected Grid System | Engr. Daud Beg |
| 465 | Remodelling of Rohri Canal System | Engr. Barkat Ali Luna and S. N. H. Mashhadi |
| 466 | Socio-Economic and Financial Aspects of International Water Supply and Sanitation Decade for Pakistan | Engr. Masih Ullah Khan |
| 467 | Obtaining Results from Research and Development - Some Requisites | Engr. Masud Hassan |
| | **VOLUME - LX -1985 (1984-85)** | |
| 468 | Diverting River Indus through Ghazi Ghat Road Bridge | Brig. (Retd.) Ghazanfar Mohammad Khan and Mohammad Aslam Chohan |
| 469 | Site Selection Kala Bagh Dam Project | Dr. Izhar-ul-Haq |
| 470 | Theory of Minimum Rate of Energy Dissipation and its Applications | Chih Ted Yang |
| 471 | Remedial Measures of Rasul Barrage | M. R. Chaudhry |
| M472 | Construction of Khairwala Drainage Project | Syed Mansoob Ali Zaidi |
| 473 | Gypsum as an Amendment for the Reclamation of Saline Sodic Lands | Mohammad Altaf Hussain and Mohammad Asghar |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 474 | Methodology of Construction of Hot Mix Asphalt Paving and our Experiences on the Execution of Lahore - Pathoki Section of Third Highway Project | Ch. Ghulam Hussain and Raja Karamat Ullah |
| 475 | Road Safety in Developing Countries | Engr. M. Sadiq Swati |
| 476 | Some Aspects of Planning | Masood Hasan |
| 477 | Transformer Losses Evaluation Factors for the Generator Transformer of Proposed Kalabagh Hydro Power Station - A Case Study | Muhammad Irfan Akhtar |
| 478 | An Over view of Irrigation and Drainage Projects in Pakistan | Dr. Nazir Ahmad and Sarfraz Ahmad |
| 479 | Development of Synthetic Unit Hydrographs in Small Ungauged Catchments of Pakistan | Muhammad Mahboob Alam |

**VOLUME - LXI - 1986 (1985-86)**

| | | |
|---|---|---|
| M480 | Transport Options for Developing Countries | Engr. Mian Ghias ud Din |
| 481 | Mechanism of the Doomsday – The Ultimate Fate of Universe | S. Bashiruddin Mahmood |
| 482 | Introduction of Dry Hydrate Lime as a Building Material in Pakistan | Muhammad Iqbal, Ali Muhammad and K. L. Khawaja |
| 483 | Development of Lahore at West Bank of Ravi | Dr. Javed Yunas Uppal |
| M484 | Remodelling Marala Barrage and Link Canal for Silt Control | Engr. Rana Mohammad Aslam Chohan |
| 485 | Drainage Study of Coastal Area | Bagh Ali Shahid and S. M. A. Zaidi |
| 486 | Optimum Moisture Content as Related to Grain Size of Cohesive Soils | Mr. I. H. Hamdani |
| 487 | Foundation Protection of Tarbela Hydro Power Building Units 5 - 8 | M. R. Chaudhry |
| 488 | Interceptor Drains | Dr. Izhar-ul-Haq |
| 489 | Reclamation of Saline Sodic Lands with Chemical Amendments | Ch. Altaf Hussain |
| 490 | Monitoring of Mangla Dam Project | Ch. Altaf-ur-Rehman |
| 491 | Experimental Errors in Measurement of Alluvial Channels | Mr. Ahmad Masud Ch. |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - LXII - 1987 (1986-87)** | |
| | **Diamond Jubilee Session** | |
| M492 | Combating High Sulphur in the Coal at Lakhra Power Plant | Ghulam Murtaza Ilias |
| M493 | Estimation of Maximum Discharge for the Design of Hydraulic Structures | Dr. Mushtaq Ahmad |
| 494 | Design and Construction of Chashma Right Bank Canal Project | Engr. Mian Muhammad Akhtar and Dr. Izhar ul Haq |
| 495 | Drainage Well Design Option for Saline Zones | Engr. Ch. Ata ur Rehman |
| 496 | Management of Engineering Projects | Engr. B. A. Chowdhry |
| 497 | Un exploited Available Potential for Higher Train Speed | Engr. M. Amir Chaudhry |
| 498 | Trial of Sand Bitumen Mix Pavement on Naukot Mithi Road (Sind) | Engr. Sajjad Haider |
| 499 | Comprehensive Sewerage and Drainage Scheme Multan | Engr. Syed Zia ul Hasan |
| 500 | Reclamation of Saline Sodic Soils with Brackish Water | Engr. Muhammad Altaf Hussain |
| 501 | Waste Water Treatment and Reuse in Irrigation | Engr. Mian Muhammad Amin |
| 502 | Use of One Point Proctor Standard Compaction Method for Computing Modified Aasho Compaction Parameters | Mr. I. H. Hamdani |
| 503 | Development of Cholistan | Engr. Rao Riaz ur Rehman, Engr. Ghulam Ahmad Asghar and Engr. C. M. Ashraf |
| 504 | Technician Education in Developing Countries | Shafqat Hussain Qureshi |
| 505 | Water Conservation through Water Course Improvement | Ch. Ata ur Rehman |
| | **VOLUME - LXIII - 1988 (1987-88)** | |
| 506 | Utilization of Bubbling Fluidized Bed Combustion Technology for Lakhra Coal | Engr. M. H. Masud Butt |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 507 | Future of Science and Technology in Pakistan | Engr. A. R. Memon |
| 508 | Upgrading and Rehabilitation of Sewerage System | Engr. Mian Muhammad Amin |
| 509 | A Computerized One - Step Cut-Flow Method for Measurement of Soils Water Diffusivity | Engr. Zia-ul-Haque |
| 510 | Digital World | Engr. Khalid Jalil |
| M511 | Sub Surface Pipe Drainage Methodology | Engr. Javed Salim Qamar |
| 512 | Tarbela Dam Project Seepage Problem and Remedies | Dr. Izhar ul Haq |
| 513 | Mass Balance Calculation Method in Methane Steam Reforming | Engr. Mrs. Zulekha Soomro |
| 514 | Steam Reforming Propane over a Nickle Alumina Catalyst | Engr. Muhammad Yaqoob Soomro and Engr. Mrs. Zulekha Soomro |
| 515 | A Feasible Inland Navigation Route from Kalabagh to Port Qasim | Engr. Mohiuddin Khan |
| 516 | Rapid Reclamation of Unbroken Saline Sodic Lands with Ground Water | Engr. Muhammad Altaf Hussain and Engr. Muhammad Asghar |
| 517 | Determination of Cohesion and Angle of Internal Friction of Partially Saturated Soil from Stress Strain Model | Mr. I. H. Hamdani |
| 518 | Use of Brackish Water for Reclamation and Crop Production | Engr. Muhammad Ramzan Chaudhry, Engr. Ch. Bashir Ahmad and Engr. Muhammad Abaid Ullah. |
| 519 | Automated Structural Analysis | Engr. Muhammad Naimet Ullah Cheema |
| 520 | Experiences of Inspections of Dams in Pakistan | Engr. Altaf ur Rahman |
| 521 | Cheapest Method of Steel Production | Engr. J. K. Jafferi |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - LXIV - 1990 (1989-90)** | |
| KM522 | Alluvial Channels Redesign Procedure | Engr. M. Naimetullah Cheema, M. Hasnain Khan and Tahir Hameed |
| 523 | Water Management Strategies for Optimizing Productivity | Ch. Nuruddin Ahmad and Dr. Nazir Ahmad |
| 524 | Lining of Irrigation Channels with Particular Reference to CWMP | S. N. H. Mashhadi and Ch. Muhammad Akbar |
| 525 | The Long Term Behaviour of Qadirabad Balloki (QB) Link Canal | Tariq Altaf |
| 526 | A Model for Efficient Distribution of Irrigation Supplies Among Distributaries | Muhammad Shafique and Dr. Muhammad Latif |
| 527 | Causes and Control of Water Logging and Salinity | Brig. (Rtd.) Khurshid Ghias Ahmad |
| 528 | Non Reclaimable Lands made to Blossom | Muhammad Altaf Hussain and Dr. Zahid Hussain |
| 529 | Salvation of Baluchistan Kachhi Plain through a Water Supply Project | A. N. Cheema and M. Saleem Chaudhry |
| 530 | Appropriate Technology Options for Waste Water Treatment in Tropical Developing Countries | Mian Muhammad Amin |
| 531 | A Study of Problems of Water Supply and Drainage of Lahore Zone using the Numerical Modelling | Dr. Nazir Ahmad and Dr. Muhammad Akram |
| 532 | Failure of Sukkur Barrage Gate No. 31 and Replacement Programme Study | A. R. Memon |
| 533 | Roller-Compacted Concrete and its Applications | S. M. A. Zaidi |
| 534 | Warsak Dam Project Problems and Remedies | Dr. Izhar-ul-Haq |
| 535 | Energy Conservation by Improving Locomotive Utilization | M. Aurangzeb Khan |
| 536 | Modelling and Design of Construction Process and Operations | S. M. A. Zaidi |
| 537 | A Plan for Self-sufficiency in Power for Pakistan | Engr. Mohi-ud-Din Khan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - LXV - 1994 (1992-94)** | |
| 538 | Performance Evaluation of Existing Lined Canals in Pakistan and Suggestions for Improvement | Dr. Nazir Ahmed, S. N. H. Mashhadi and Amir-ur-Din Qureshi |
| 539 | Measurement of Inelastic Deflection by Laser Speckle Technique | Muhammad Akram Tahir, Bilal Ahmad Goraya and Ahmed Sana |
| 540 | Open Channel Design in a Minute | Farooq Khan Niazi |
| 541 | Remodelling Bambanwala Cross-Regulator | Usman Akram |
| M542 | A New Approach for the Design of Alluvial Canal System in Pakistan | Dr. Bagh Ali Shahid and Fredericks J. Watts |
| M543 | Drainage of Irrigated Lands of Pakistan - A Critical Review | Dr. Nazir Ahmed |
| 544 | Geometric Design of Faizabad Interchange | E. I. Johri |
| 545 | Problems Related with Sedimentation of Reservoirs in Pakistan | Qazi M. Anwar-ul-Haq |
| 546 | Microprocessor Controlled Robot Arm for Light Engineering Tasks | Dr. Israr Ahmed Chaudhry and Dr. Tariq Mahmood |
| 547 | A Comparative Study of Sm-Co S Nd-Fe-B Permanent Magnets | Dr. A. Ahmad and Engr. G. A. Awan |
| 548 | Shelter for the Shelterless - Design and Evaluation | Ghulam Mustafa Qazi |
| 549 | Post Yielding Deflection of R. C. Beams | Akram Tahir, Bilal Ahmad Goraya and Ahmad Sana |
| 550 | Remodelling Approach for Kabul River Canal System in View of Changing Agro- hydrological Conditions | J. A. Tariq |
| 551 | Emergency Plan for Rapid Development of Water Resources and Overcoming Power Load Shedding | Mohiuddin Khan |
| 552 | External Pressurized Gas Journal Bearing and their use in High Technology and Some Performance Characteristics | M. Uneeb, I. A. Chaudhry and Dr. R. Gohar |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| | **VOLUME - LXVI - 1996 (1994-96)** | |
| 553 | Privatization and Commercialization of Irrigation Management: Are the New Strategies Workable in Pakistan Setting? | Asrar-ul-Haq, Dr. Bagh Ali Shahid and Usman Akram |
| M554 | On the Flood Frequency Analysis at Important Discharge Measuring Sites of Pakistani Rivers | Prof. Dr. Ing. Syed Ali Rizwan and Muhammad Azim Chaudhry |
| 555 | Impacts of Planning and Design Changes on Channel Behaviour and Environment: A case Study of fall at RD 64357 Muzaffargarh Canal | Asrar-ul-Haq, Muhammad Hasnain Khan and Syed H. Gilani |
| 556 | Restoring Design Capacity of Marala Ravi Link Canal | Dr. A. S. Shakir, Asrar-ul-Haq and Dr. Bagh Ali Shahid |
| 557 | A Proposal to Raise the Maximum Capacity Level (MCL) of Mangla Reservoir Based Upon Downward Revision of Mangla PMF and Improved Flood Forecasting and Warning Facilities | Abdul Majid |
| 558 | Mangla Dam Project: A Proposal for Flood Mitigation by 4.5 ft Raising of Dam | Abdul Khaliq Khan and Saleem-ud-Din |
| 559 | Flood Control Techniques for Effective Alluvial River Management | Prof. Dr. Ing. Syed Ali Rizwan, Muhammad Azim Chaudhry and Salamat Ali |
| 560 | An Introduction to Time Series Modeling and its Application in Water Resources Engineering | Tahir Hameed, Tahir Ahmad Malik and Muhammad Safadar Chishti |
| 561 | Proposed Revisions to the Pakistan Highway Code for Seismic Design of Reinforced Concrete Bridge Piers | Muhammad Tariq Amin Chaudhry |
| 562 | Engineering Industry, Problems and Prospects | Dr. S. M. Naqi |
| 563 | Methodology for Improvement of Capacity of Urban Roads | Engr. E. I. Johri |
| 564 | Performance of Lifelines during Recent Earthquakes | Muhammad Tariq Chaudhry |
| M565 | The Incidence of Rutting on Bituminous Roads | Shaukat Ali |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 566 | Privatization of Transportation Infrastructure in Developing Countries | Muhammad Mursaleen |
| 567 | A Simplified Approach for the Analysis and Design of Two Way Joist Floors | Prof. Dr. Ing Syed Ali Rizwan and Azhar Ali Bhatti |
| 568 | Construction of Bored Cast-in Situ Concrete Piles on Chashma Right Bank Irrigation Project Stage-II | S. N. H. Mashhadi and Syed Manzoor Hussain Rizvi |

**VOLUME – LXVII - 1998 (1996-98)**

| | | |
|---|---|---|
| 569 | Analysis of Two Way R. C Joist Floors Having Different Configurations | Prof. Dr. Ing. Syed Ali Rizwan, Syed Ali Debaj and Husnain Ahmad |
| 570 | Behaviour of Geometrically Imperfect Slender Steel Columns | Prof. Dr. Ing. Syed Ali Rizwan, Syed Ali Debaj and Husnain Ahmad |
| 571 | Computer Analysis of Composite Space Structures | M. Ashraf, Zahid A. Siddiqui and Afzal Javaid |
| 572 | A Convenient Method for Design of Reinforced Concrete Members | Z. A. Siddiqui and M. Ashraf |
| 573 | Segmental Cantilever Bridges at Karote and Kohala | Sameer Z. Khan |
| 574 | Prevention of Salt Attack by Using Pozzolanic Admixtures | Rana Nisar Ahmad |
| 575 | Curve of Infinite Plate with a Crack Lying on Elastic Base by Dynamic Loading | Dusembayev Isim Nacievich, Travush Vladimir Ilich |
| 576 | Decision Support System for Reservoir Operation to Manage Severe Floods in Pakistan | Shahbaz Khan |
| 577 | Salinity Extent and Management in Irrigation Commands | M. Azhar Javaid, Ch. Karamat Ali and Muhammad Javed |
| M578 | Experience Gained from Interceptor Drains Installed in LBOD Stage I Project | Yawar Hamid |
| 579 | Performance of Tarbela Reservoir | Sardar Muhammad Tariq and M. Mushtaq Chaudhry |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 580 | 580 Drainage Management to Control Salinity and Alkalinity for Better Crop Production | Muhammad Altaf Hussain |
| 581 | 581 Managing Water Resources Through Users Associations | Mian Hafizullah |
| 582 | Multi Stage Lift Irrigation Some Adverse Economic and Environmental Aspects – A Case Study | B. A. Malik |
| 583 | A Mateorological Approach to Forecast the Seasonal (Khareef) Inflow Volume for Mangla Reservoir | Abdul Majid |
| 584 | Irrigation Management Information System: The Framework and Implementation Strategies for Pakistan | Asrar ul Haq and Muhammad Hasnain Khan |
| 585 | A Framework for Performance Evaluation of River Training Works | A. S. Shakir, Asrar ul Haq and Nasir Ali |
| 586 | Design, Principle and Uses of Tensiometers | Zia ul Haque and Gul Muhammad Shah |
| 587 | Evaluation of Completed Contracts for Future Pre qualification of Contractors | Daud Nasir Fakher Raza |
| 588 | Causes of Delay in the Construction Industry of Pakistan | Muhammad Muneer Ali and Riaz Ahmad Goraya |
| 589 | Towards Total Quality Management Control (TQM) For Construction in Pakistan | Muhammad Muneer Ali |
| 590 | Biological Nutrients Removal Application of Software Packages for Plant Design | Bushra Waheed and John P. Barford |
| 591 | Biodiversity and Species Extinction | Javed A. Aziz |
| 592 | Application of Clean Technology for Industrial Waste Pollution Control | Javed A. Aziz |
| 593 | Global Warming | Javed A. Aziz |
| 594 | Treatment Options for Waste water reuse | Javed A. Aziz |
| 595 | Concept of Rapid Intercity Train Service for Passenger Traffic on Pakistan Railways | Abdul Qayyum |
| 596 | Rutting of Bituminous Concrete Pavements | Zubair Emran Khawaja |
| 597 | Surge Transfer Behaviour of Power Transformers | Suhail Aftab Qureshi and Humayun Pervaiz |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 598 | Subcube Migration in Multistage Interconnection Networks (Part I) | Muhammad Naeem Ayyaz |
| 599 | Subcube Migration in Multistage Interconnection Networks (Part II) | IMuhammad Naeem Ayyaz |
| 600 | Minimizing Flow Time Genetic Algorithms in Machine Scheduling | Nasir Hayat and Andrew Wirth |
| 601 | Injection Moulding of Co Cr Mo Alloy Powder | M. Y. Anwar, H. A. Davies and P. F. Messer |
| 602 | Processing of North Waziristan Copper Sulfide Ore and Prospects for the Establishment of a Concentrate Plant | M. Mansoor Khan, Khan Gul Jadoon Ehteshamulla Khan and Mazhar Rafiq |
| 603 | A Review of Parameters Influencing the Performance of Tunnel Boring Machines | Saad N. Cheema and Jamal Rostami |
| 604 | Criteria for Selection and Application of TBMs in Tunneling Projects | Saad N. Cheema and Jamal Rostami |
| 605 | Noise Pollution and its Environmental Impacts | Khurshid Ahmad |

**VOLUME - LXVIII - 2000 (1998-2000)**

| | | |
|---|---|---|
| 605 A | A New Transport Policy in Asia For Poverty Alleviation and Pakistan's Role in its Implementation | Mohi-ud-Din Khan |
| M606 | Effects of Upstream Storages on the Present Eco Systems in Areas Downstream of Kotri Barrage | Barkat Ali Luna and Muhammad Jabbar |
| 607 | Development of Storages for Addressing the Emerging Water Scarcity in Pakistan Bridging the Crisis of Conflicting Interests | Asrar-ul-Haq, Abdul Sattar Shakir and Dr. Bagh Ali Shahid |
| 608 | Design and Construction of Scarp Sukh Beas Sukhnai Outfall Channel Project | Ch. Ghulam Hussain |
| 609 | Flood Management of Deg Nullah by Part Diversion into Basanter Nullah | Liaquat Rabbani and Dr. Muhammad Latif |
| 610 | Modern Flow Meter and Application to Pakistan Irrigation System | Mazhar Hussain |
| 611 | Rights and Responsibilities of Lower Riparians of Kalabagh Dam on Indus River | Dr. Iqbal Ali and Ghulam Murtaza Abro |
| 612 | Safety of So-Called Small Dams in Pakistan | Altaf-ur-Rehman |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 613 | Case Study and Risk Assessment of Scour around Bridge Piers | Muhammad Khalil (Late) |
| 614 | Implementation of Participatory Irrigation Management in Pakistan, its Engineering, Legal and Financial Aspects | Ahmed Usmani and Zulfiqar Ali |
| 615 | Problems of Irrigated Agriculture, Need Removal to Efficiently Use Water of Indus River System | Fatah Ullah Khan |
| 616 | Drinking Water Quality in Punjab | Prof. Dr. Javed Anwar Aziz |
| 617 | A Two Zone Model for Longitudinal Dispersion in Channels with Idealized Pools and Riffles | Dr. Zulfiqar Ali |
| 618 | Provision of Calcium Ions for Reclamation of Sodic Soils | Muhammad Altaf Hussain |
| 619 | Experimental Investigations on Reinforced Brick Slabs | Zahid A. Saddique and Muhammad Ashraf |
| 620 | Shear Strength of Reinforced Concrete Beams without Web Reinforcement | Dr. Muhammad Saeed Ahmad |
| 621 | A Comparative Study of Modified Concretes | Prof. Dr. Ing. Syed Ali Rizwan and Kafeel Ahmad |
| 622 | Evaluation Study for Determining Premature Pavement Cracking of a Section of Jhang Shorkot Road | Zubair Emran Khawaja |
| 623 | Maintenance and Rehabilitation of Roads and Highways | Shahid Majid, Muhammad Aslam and Muhammad Javaid |
| 624 | A Revolutionary Prepackaged Polymer Modified Super Plasticized Mortar with Field Application and Economic Advantages | Musarat Ullah Khan Afridi, Prof. Dr. Ing. Syed Ali Rizwan and Javaid Iqbal Memon |
| 625 | Effects of Arc Model and Trapped Charge on very Fast Transient over Voltage in GIS | Sohail Aftab Qureshi and Muhammad Ahmad |
| 626 | Evaluation of Lightening Surge Effect on 11KV Distribution Lines | Sohail Aftab Qureshi and Shakir Hafiz |
| 627 | Productivity and Quality; The Two Simultaneous Imperatives for Pakistan | S. M. Naqi |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 628 | Nonlinear System Analysis and Design Using Matlab and Simulink Tutorial | Farrukh Nagi and Fawad Ahmed |
| 629 | Review and Comparison of Rock Mass Classification System | Saffet Yagiz and Saad Cheema |
| 630 | Floatation of Copper Minerals from North Wazirastan Copper Ore at Pilot Scale | Muhammad Mansoor Khan, Mazhar Rafique and Ihtasham Ullah Khan |
| 631 | Effect of Die-Temperature on Age Hardening Characteristics of Aluminium Copper and Aluminium Copper Magnesium Alloys | Yousaf Anwar and Syed Qasim Hasan Zaidi |

**VOLUME - LXIX - 2004 (2001-04)**

| | | |
|---|---|---|
| 632 | Performance of Tarbela Dam Project | Riaz Nazir Tarar |
| 633 | Problems of Plunge Pool Development and Remedial Measures at Tarbela Dam Service Spillway | H. D. Bangash |
| 634 | Addressing the Emerging Water Sector Challenges in Pakistan: A Case Study of Punjab's Aging Irrigation Infrastructure | Asrar–ul–Haq |
| 635 | Remodelling of Thal Canal – Main Line Upper Damage to Concrete Lining its Causes and Remedies | Barkat Ali Luna and Engr. Khalid Javed |
| 636 | Production of Fused Silica Cores Using Powder Injection Moulding Techniques | Dr. M. Yousaf Anwar |
| 637 | Factors Affecting the Performance of Steel in Concrete | Dr. S. E. Benjamin |
| 638 | Development of the Modified Concrete Seepage Barrier | K. Ahmed, Engr. Husnain Ahmad and Prof. Dr. Ing. Syed Ali Rizwan |
| 639 | Sediment Management for Reservoirs | Altaf-ur-Rehman |
| 640 | Strategies for Safe Exploitation of Fresh Water Through Multi-Strainer Skimming Wells in Saline Groundwater Areas | Dr. M. Mehboob Alam, Hassan Mehtab Jaffery and Muhammad Hanif |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 641 | Prepackaged Polymer – Modified Mortar Proves Effective Construction Material – Field and Laboratory Observations | Dr. M. U. K. Afridi, Anwar Ahmed Khan, Prof. Dr. Ing. Syed Ali Rizwan and Dr. Ghous Bux Khaskhali |
| 642 | Using Locally Available Fly Ash for Modifying Concrete Properties | Prof. Dr. Ing. Syed Ali Rizwan, Shamas ur Rehman Toor and Engr. Husnain Ahmad |
| 643 | Effect of Test Procedure on Shear Strength Obtained Using the Newcastle Dilatometer | A. Akbar and B. G. Clarke |
| 644 | Liquefaction Assessment of Indus Sands Using Shear Wave Velocity | Sohail Kibria, M. Javed and Muhammad Ali |
| 645 | Development of Regional Scale Soil Erosion and Sediment Transport Model; Its Calibration and Validation | Dr. M. Habib ur Rehman and Engr. M. Naeem Akhtar |
| 646 | Troubles Experienced with the Silt Ejectors on Taunsa Canals and Remedial Measures | Shafaat Ahmad Qureshi |
| 647 | Hydrologic Assessment of Small Dams in Potohar Area : Case Study of Jammergal Dam | Dr. Ata ur Rehman Tariq |
| 648 | A Perspective Scenario of Water for Irrigated Agriculture in Pakistan | Dr. M. Nawaz Bhutta and Dr. A. B. Sufi |
| 649 | Exploiting Huge Natural Resources of Lime in Pakistan for Construction Industry | Prof. Dr. Ing. Syed Ali Rizwan, Shamas ur Rehman Toor and Engr. Husnain Ahmad |
| M650 | Failure of 2–meter DIA and 54 Meters Long Piles No. 3/1, 3/2, 3/3, 4/3, 6/2, Cracks in Transom No. 6 and other Problems of West Channel Bridge Over River Chenab Near Chiniot on Faisalabad – Sargodha Road | Engr. Muhammad Iqbal Qureshi |
| M651 | Performance of Subsurface Drains in Mirpur Khas Area of LBOD Stage I Project | Yawar Hamid and Irshad Ahmed Bohio |
| 652 | The Effect of Alloy Additions on the Magnetic Properties of RFeB Sintered Magnets | Dr. A. Ahmad |
| 653 | Testing the Detonator Accuracy Using Velocity of Detonation and Airblast Meters | Dr. Syed M. Tariq |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 654 | Organizational Methodology for Innovating Products and Processes | Tauseef Aized |
| 655 | Cybernetics in Water Resources Management | Naveed Alam |
| M656 | Using Environment Friendly Finely Divided Materials in Brittle Matrix Composites | Prof. Dr. Ing. Syed Ali Rizwan and Engr. Husnain Ahmad |
| 657 | A Comparative Study of Calculated and Measured Particle Velocities | Dr. Syed M. Tariq |

**VOLUME - LXX - 2006 (2004-06)**

| | | |
|---|---|---|
| 658 | Role of Water Resources Development in the Economy of Pakistan | M. Mushtaq Chaudhry, Dr. Muhammad Siddique and Dr. Allah Bakhsh Sufi |
| 659 | Sedimentation of Tarbela and Mangla Reservoirs | Dr. Izhar ul Haq and S. Tanveer Abbas |
| 660 | Analysis of Different Models to Predict the Mean Flow Velocity in Hyper concentrations, Mudflows and Debris Flows | Engr. Hammad Hussain |
| 661 | Use and Limitations of Sprinklar and Drip Irrigation Systems in Pakistan | Dr. Muhammad Mehboob Alam, Dr. Muhammad Nawaz Bhutta and Dr. Aftab H. Azhar |
| M662 | Damages to the right Pocket of Sukkur Barrage and Emergency Restoration Works (2004-2005) | Barkat Ali Luna, Malik Ahmad Khan, Ch. Muzaffar Hussain and Dr. Muhammad Salik Javed |
| 663 | Geotechnical Evaluation of a Morning Glory Spillway Failure Founded on Expansive and Dispersive Clay | Farhat Javed and Brig. Asghar Nasim |
| 664 | Resettlement Aspects of Mangla Dam Raising | Muhammad Saleem Sheikh |
| 665 | Second Remodelling Proposed for Balloki Headworks | Muhammad Aslam Chohan |
| 666 | Environmental Management Concerns in Water Sector and Institutional Capabilities | Engr. Muhammad Shafiq |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 667 | Meeting Future Food Demands of Pakistan under Scarce Water Situations | Shehzad Ahmed, Naveed Alam, Abdul Shakoor and M. Kaleem Ullah |
| 668 | Numerical Simulation of Canals Irrigation Systems in Pakistan | Mazhar Hussain |
| 669 | Tackling Landslides during Extension of KKH | Sohail Kibria and Basit Masud |
| 670 | Self-Compacting Concrete - A Useful Technology | Prof. Dr. Ing. Syed Ali Rizwan, Thomas A. Bier and Engr. Husnain Ahmad |
| 671 | Effect of Temperature and ph on the Binding of Chloride by Calcium Aluminate | Dr. S. E. Benjamin |
| 672 | Engineering and Entrepreneurial Thrust | Dr. S. M. Naqi |
| 673 | University-Industry Linkage for the Rapid Growth of Engineering Industries in Pakistan | Air Commodore (R) Mansoor Malik |
| 674 | Grid Computing: Potential Opportunities for Pakistan | Dr. Arshad Ali |
| 675 | Developing Countries and Intellectual Property Rights | Saad Nusrullah |
| 676 | Synthesis and Applications of $TIO_2$ Nanoparticles | Dr. A. Ahmad, Gul Hameed Awan and Salman Aziz |
| 677 | A Study on Thermal Cracking of Cast Iron | Dr. M. Yousaf Anwar |
| 678 | Sustainable Pakistan through Matching Grant Programme: 21st Century Vision | Qamar-ul-Islam, Dr. Awais Piracha and Muhammad Shahzad |
| 679 | Comparative Study of Nylon and PVC Fluidized Bed Coating on Mild Steel | R. Ahmad, S. Aziz and J. Iqbal |

**VOLUME - LXXI - 2011 (2006-11)**

**Part-1**

| | | |
|---|---|---|
| 680 | Pakistan Need for Storages for Different Uses | Riaz Nazir Tarar |
| 681 | Diamer Basha Dam Project | Dr. Izhar ul Haq and Syed Tanveer Abbas |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 682 | Performance Based Seismic Evaluation and Retrofitting of Unsymmetrical Medium Rise Buildings- A Case Study | Jimmy Chandra, Pennung Warnitchai, Deepak Rayamajhi, Naveed Anwar and Shuaib Ahmad |
| 683 | Cofferdam Construction and Dewatering Taunsa Barrage Rehabilitation Project | Muhammad Nadeem, PhD, PE |
| M684 | Selection of Dam Type and Planning Aspects of Dasu Hydropower Project | M. Saleem Sheikh |
| 685 | Construction of Taunsa Barrage Rehabilitation Project Works | S.M.A Zaidi, M. Akhter Chaudhry and Malik Ahmad Khan |
| 686 | Tarbela Reservoir: Towards a Sustainable Future | Amjad Agha |
| 687 | Planning and Design of Taunsa Barrage Rehabilitation Project | S.M.A Zaidi, M. Akram Khan and Saif ur Rehman |
| 688 | Kalabagh - A Superior Dam Designers' View Point | Engr. Barkat Ali Luna and Engr. Muhammad Jabbar |
| 689 | Jinnah Hydropower Project Development of Surge due to Sudden Shutdown | Dr. Muhammad Siddique and Maqsood Shafique Qureshi |
| 690 | Quality Management for Taunsa Barrage Rehabilitation Project | S.M.A Zaidi, Malik Ahmad Khan and Javed Asad |
| | **Part 2** | |
| 691 | Fall Structures on Open Flow Canals (Design Concept and Methodology) | B. A. Shakir |
| 692 | Experience of Bio-Saline Approach for Rehabilitation of Salt-Affected Lands in Pakistan | Ali Hassan Shah, Khalid Hussain Gill and Najaf Iqbal Syed |
| 693 | To Look into the Possibility of using Penetration Grade Asphalt Binder in Stone Matrix Asphalt (SMA) for Highways and Heavy Traffic Roads in Pakistan | Shamim Zafar |
| 694 | Rehabilitation of Lower Chenab Canal (LCC) System Punjab Pakistan | Engr. Mazhar Hussain |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| M695 | Assessment of Groundwater Development Potential in District Nowshera using Groundwater Modeling | Engr. Muhammad Basharat, Dr. Muhammad Siddique and Muhammad Ismail |
| 696 | Factor of Accessibility as a Catalyst towards Disaster Management – Case Study of Lyari Expressway, Karachi | Dr. Noman Ahmed |
| 697 | Hydraulic Simulation of Lower Bari Doab Canal (LBDC) Punjab Pakistan | Engr. Mazhar Hussain |
| 698 | Drinking Water Shortage - A Solution | S. E. Benjamin |
| 699 | Well Test Analysis of Two-Layered Oil Reservoir in Commingled Flow System | Abdul Majeed |
| 700 | Irrigation Water Pricing & its Sustainability in Pakistan | Dr. Allah Bakhsh Sufi |
| 701 | Occupational Health and Safety Issues in Sihala Flour & General Mills (Pvt.) Limited in I-9 Industrial Zone, Islamabad: A Case Study | Sajida Rasheed and Zahir-ud-Din Khan |
| 702 | Drinking Water Quality Monitoring within a Distribution Network: F-8 and E-7 Sectors of Islamabad | Sara Qaiser, Syeda Asma, M. Talal Ali Khan and Imran Hashmi |
| 703 | Field Testing of Film Hole Irrigation on Borders for Water Saving and Sunflower Production | Muhammad Saeed and Sajid Mahmood |
| 704 | Water Quality Assessment of River Ravi around Lahore City | Ms. Afaf Ayesha |
| 705 | Performance Evaluation of Taunsa Barrage Emergency Rehabilitation and Modernization Project | Engr. S.M.A. Zaidi Engr. Mehr Muhammad Amin and Engr. Muhammad Ajmal Ahmadani |
| 706 | The Reality of Net Hydel Profit | Azhar Masud Panni |
| 707 | Flashflood Risk Assessment in Pakistan | Husnain Ahmad, Javeed Iqbal Bokhari and Qazi Tallat Mahmood Siddiqui |

**VOLUME - LXXII – CENTENARY CELEBRATIONS (1912-2012)**

| | | |
|---|---|---|
| 708 | Engineering of Headrace Tunnel for Neelum Jhelum Hydropower Project | Engr. Abdul Khaliq Khan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| M709 | Evolution of Design of Barrages in Indus Plains | Dr. Izhar ul Haq, Riaz Nazir Tarar |
| 710 | Modern Approaches in Flood Disaster Risk Management | Asjad Imtiaz Ali, Javeed Iqbal Bokhari, Qazi Tallat M. Siddiqui |
| 711 | Water Resources of Pakistan | Irshad Ahmad, Dr. Allah Bakhsh Sufi, Imran Tariq |
| 712 | Managing Water Resources for Food Security in Pakistan | Irshad Ahmad, Dr. Allah Bakhsh Sufi, Talib Hussain |
| 713 | Mangla Dam - Past, Present & Future | M. Saleem Sheikh |
| M714 | Recent Trends in High Altitude Temperatures and River Flows in Upper Indus Basin | Dr. Muhammad Siddique, Danial Hashmi |
| 715 | Management of Surface and Groundwater Resources in Cholistan Desert of Pakistan for Drinking and Farm Production | Muhammad Akram |
| 716 | Intervention of Irrigation Management Transfer in Punjab - An Overview And Assessment | Engr. Muhammad Shafiq |
| 717 | Groundwater Management in Pakistan: The Question of Balance | Asad Sarwar Qureshi |
| 718 | Water Resources Management in Pakistan: The Challenges, Climate Change Implications and Way Forward | Engr. Asrar-ul-Haq, Muhammad Aamir Khan, Muhammad Hasnain Khan |
| 719 | Development of Low Head Hydropower Projects on Canals in Punjab Pakistan | Engr. Mazhar Hussain |
| 720 | Design, Local Manufacturing, Development and Installation for Practical Demonstration of very low Head Micro Hydro Power Plant at Canal in Pakistan | Prof. Dr. Engr. S. M. Bhutta |
| 721 | Accelerated, Innovative and Participatory Mechanism for Combating Nation's Crises | Dr. Engr. Javed Yunas Uppal |
| 722 | Hydel Generation and its Role in Tackling Pakistan's Power Crisis | Engr. Khurram Feroze |
| 723 | Solar Energy – Today and Tomorrow | Engr. Riaz Ahsan Baig |
| 724 | Role of Technocrats in Nation Development | Engr. Aftab Islam Agha |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 725 | Pollution of Water Bodies: Challenges and Strategies | Afaf Ayesha |
| 726 | Cost and Time Overruns in Highway Projects in Pakistan | Rafiq Muhammad Choudhry, Abdur Rehman Nasir, Hamza Farooq Gabriel |
| 727 | Effect of Load on Friction & Wear Characteristics of Tin Coatings Under Boundary Lubrication Condition | B. Waseem, M. Irfan, S. Alam, B. D. Soomro, M. Shahid, A. K. Aziz |
| 728 | Selection of Aggregate Gradation for Hot Mix Asphalt | Shamim Zafar |
| 729 | Nanoscale Metamaterial Energy Conversion Devices | Prof. Nasrullah Khan, Naeem Abas |
| 730 | Right Cost for Sustainable Construction | Engr. M. Mazhar-ul-Islam |
| 731 | Performance Evaluation of Bench Scale Membrane Bioreactor (MBR) Systems | Aman Ahmad, Babar Abbas, Rasikh Habib, Humayun Khan, Sher Jamal Khan |

**VOLUME - LXXIII - 2013 (2011-13)**

| | | |
|---|---|---|
| 732 | Proposal for Remodeling of Khanki Headwork Vs New Barrage Construction | Muhammad Aslam Chohan |
| 733 | Sediment Management of Tarbela Reservoir | Dr. Izhar ul Haq |
| 734 | Solution to Energy Crises Bridging Gap between Demand and Power Supply | Riaz Ahsan Baig |
| 735 | Role of Sediment Transport in Operation of Irrigation Canals | Sarfraz Munir, Javaid A. Tariq, Bart Schultz |
| 736 | Effects of Harmonics on Power & Communication Systems | Eng. Fayyaz Ali Shah |
| 737 | An Alternative to Deep Foundations in Marginal Soils of Karachi | Tariq Hamid, Qamar Jawaid |
| 738 | Impact and Puncturing of Jari Tunnel and Enlargement of Existing Tapping's for Additional Water Supply and Power Generation | Javed Munir, Syed Abbas Ali, Irfan Mahmood |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 739 | Design of Steel Fibre Reinforced Concrete Beams using the new FIB Model Code 2010 – An Evaluative | Ammar Abid, K. B. Franzen |
| 740 | Numerical Modeling and Simulation of a Masonry Arch in ANSYS Subjected to Impact Loading | Sajjad Ahmad, Giuseppe Andrea Ferro, Abdul Qadir Bhatti, Rao Arsalan Khushnood, Aitizaz Arshad |
| 741 | Impact Response Analysis of Retaining Wall under Falling Weight Impact Load | Abdul Qadir Bhatti, Guilio Ventura, Asim Bashir, Muhammad Yousaf Anwar, Ihsan Ullah Shah |
| 742 | A Comparative Study on Highway Bridge Barriers Reinforced with Steel and GFRP Bars | Rao Arsalan Khushnood, Giuseppe Andrea Ferro, Sajjad Ahmad, Fawad Ahmed Najam |
| 743 | Analysis of the Indo-Pak Indus Waters Treaty 1960 | Engr. Asjad Imtiaz Ali, Engr. Javeed Iqbal Bokhari, Engr. Dr. Qazi Tallat M. Siddiqui |
| 744 | Addressing Water and Power Needs of Pakistan Through Construction of Major Storage Dams | Muhammad Munir Ch., Zia-ul-Hasan, Dr. Allah Bakhsh Sufi |
| 745 | Combating Natural Disasters - Engineers' Responsibility | Eur Ing Sarfraz Ahmad |
| 746 | Hill Torrent Management Initiatives in Southern Part of Punjab An Overview, Impact Analysis & Way Forward | Ch. Muhammad Shafiq |
| 747 | Temporal and Spatial Variations In Summer Flows of Upper Indus Basin, Pakistan | Muhammad Yaseen, Haris Akram Bhatti, Tom Rientjes, Ghulam Nabi, Muhammad Latif |
| 748 | Channelization of Natural Nullahs in Himalayans for Flood Control Using Hec Ras | Engr. Dr. Mazhar Hussain, Engr. Muhammad Atif Mian |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 749 | Impact of Pollution in Ravi River on Groundwater Underlying the Lahore City | Ghulam Zakir Hassan, Ghulam Shabir, Faiz Raza Hassan, Saleem Akhtar |

**VOLUME - LXXIV - 2015 (2013-2015)**

| | | |
|---|---|---|
| 750 | Coal Exploitation and Utilization for Economic Development | Prof. Dr. Shahid Munir |
| 751 | Irrigation Scheduling | Muhammad Ashraf, Arif Anwer, Muhammad Aslam |
| 752 | Efficient Application of Water on Farm | Bakshal Khan Lashari, Arif Anwer, Muhammad Aslam |
| 753 | Rainwater Harvesting | Abdul Wahab Kakar, Arif Anwer, Muhammad Aslam |
| 754 | Groundwater Issues | Ahmad Khan Bhatti, Arif Anwer, Muhammad Aslam |
| 755 | Surface Water Issues | M. Waseem Asghar, Arif Anwer, Muhammad Aslam |
| 756 | Minimizing Flood Damages to Agriculture | Nazir Ahmad Memon, Arif Anwer, Muhammad Aslam |
| 757 | Capture of Flood Waters | Yawar Hamid, Arif Anwer, Muhammad Aslam |
| 758 | Effective Regulations for Sustainable Construction | Engr. M. Mazhar ul Islam |
| 759 | Geomorphological and Geological Investigation using Dem of Islamabad District, Pakistan | Sajid Rashid Ahmad, Usman Ahmad, Muhammad Asim Rizwan |
| 760 | Groundwater Management using Mod Flow – A Case Study of Rachna Doab, Punjab, Pakistan | Ghulam Zakir Hassan, Faiz Raza Hassan, Sultan Ahmad Rizvi |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 761 | Impacts of Climate Change on Water Resources of Pakistan | Javeed Iqbal Bukhari, Ather Hameed Awan, Dr. Qazi Tallat M. Siddiqui |
| 762 | Pakistan Water Security Issues and Addressing Strategies | Riaz Nazir Tarar |
| 763 | Rail Link Between Pakistan and China – Pre-feasibility Study | Stephan Tischler, Abdul Rehman Ch. |
| 764 | Physical Hydraulic Model Studies of Neelum Jhelum Hydroelectric Project, Pakistan | Khalid Mehmood, Engr. Muhammad Sehroosh, Dr. Engr. Mazhar Hussain |
| 765 | Water Security for Sustained Development of Pakistan | Engr. Ishteqaq Ahmad Kokab, Engr. Husnain Afzal |
| 766 | On-Farm Water Storage | Mushtaq Ahmad Gill, Arif Anwer, Muhammad Aslam |
| 767 | Modelling of Chlorine Decay in NUST Drinking Water Distribution System | Wajeha Tauqir, Syeda Rida-e-Zainib, Ifarah Imtiaz, Zohaib Mansha, Imran Hashmi |
| 768 | Hill Torrents of Pakistan | Tariq Altaf, Abdul Khaliq Hashmi |
| 769 | Instream Hydrokinetic Power Technology – A Case Study of Ghazi Barotha Power Channel | Muhammad Mohsin Munir, Tariq Altaf, Javed Munir, Muhammad Muneeb Khan |
| 770 | Water Security Issues and Way Forward | Dr. Izhar ul Haq, Abdul Khaliq Khan |
| **M771** | Flood Management Challenges in Pakistan: Shaping Improvement Strategies in the Context of Prevailing Constraints, Conflicting Interests and Global Experiences | Asrar-ul-Haq |
| 772 | Groundwater Pollution and Threat for Environment in Mega City Faisalabad | Engr. Dr. Muhammad Saeed, Engr. Hafeez-ur-Rehman, Engr. Syed Javed Sultan, Shaukat Hayyat, M. Noman Younas |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 773 | Water Policy Issues and Options: Some Ideas to use Economic Tools to Close the Growing Supply and Demand Gap | Dr. Mahmood Ahmad |

**VOLUME LXXV – 2017 (2016-2017)**

| | | |
|---|---|---|
| 774 | Water Accounting and Auditing To Manage Water Scarcity--Global Experience And Possible Guidelines For Pakistan | Dr. Mahmood Ahmad |
| 775 | A Way Forward For Flood Risk Management In Pakistan | Dr. Qazi Tallat Mahmood Siddiqui |
| 776 | Planning, Design, Construction And Monitoring Of Flood Bunds | Engr. Syed Mansoob Ali Zaidi |
| 777 | Tarbela 4th Extension Hydropower Project | Engr. Dr. Izhar ul Haq & M. Mushtaq Ch. |
| 778 | Climate Change Impact on Water Resources Of Pakistan | Muhammad Munir Ch., Maqsood Shafique Qureshi & Dr. Allah Bakhsh Sufi |
| 779 | Sustainable Development And Management Of Groundwater- Lahore City | Ghulam Zakir Hassan & Faiz Raza Hassan |
| 780 | Comparison Of Temporal Changes In Groundwater Depth With Respect To Drought And Normal Years In Irrigated Areas of Sindh And Baluchistan | Engr. Ijaz Javed, Engr. Dr. Muhammad Saeed, Engr. Muhammad Shoaib, Engr. Muhammad Jawad & Dilbar Hassan |
| 781 | Pcrwr Irrigation Advisory Services For Different Agro-Climatic Zones Of Pakistan – An Impact Analysis | Ashfaq Ahmad Sheikh, Ahmad Zeeshan Bhatti, Adil Altaf & Muhammad Ashraf |
| 782 | Farmer Managed Irrigation System And Its Impact On Water Service Delivery: A Case of Sindh-Pakistan | Nazir Ahmed Memon & Masroor Ahmed Shahwani |
| 783 | Crop Water Budget Estimation Using Gis | Engr. Muhammad Awais & Engr. Muhammad Mohsin Munir |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 784 | Roof Top Rainwater Harvesting Options For Water Conservation-A Case Study Of Lahore | Dr. Ghulam Nabi & Muhammad Tarique |
| 785 | Awarding Contract Without Competitive Bidding: Implications | Engr. M. Mazhar-ul Islam |
| 786 | Impact Of Soil Characteristics On Failure Of Flood Bunds- Case Study From Punjab Pakistan | Ghulam Zakir Hassan, Ghulam Shabir, Adnan Hassan & M Shehzad Abdul Rahim |
| 787 | History Of Tolerable Deformation of Foundations | Sohail Kibria & Sajid Iqbal |
| 788 | Financial And Economic Analysis Of Project of Up-Gradation/Rehabilitation Of Main Line 2 of Pakistan Railways | Abdul Rehman Chaudhry, Muhammad Inam |
| 789 | Interpretation Of Problematic Sonographs In Sonic Integrity Testing of Piles | Sohail Kibria, Asim Masud & M. Tayyab Javed |
| 790 | Barrage Projects-Flood Management | Amjad Saeed & Muhammad Sajid Nazir |
| | **Volume – LXXV – 2019 (2018-2019)** | |
| 791 | Technical Perspective of Diamir Basha Dam | Engr. Riaz Nazir Tarar |
| 792 | Potential Climate Change Impact on Floods in Punjab, Pakistan | Dr. Muhammad Nawaz Bhutta |
| 793 | Soil Property Correlations for Assessing Compressibility and Undrained Shearing Strength of Lahore Clays | Sohail Kibira, Muhammad Ali |
| 794 | Stabilization of a Terrace Slope at Bansara Galim Murree | Sohail Kibria, Muhammad Ali |
| 795 | Electrification of Karachi-Lahore Section of ML-1 under CPEC | Abdul Rehman Chaudhry |
| 796 | Contours of the First Ever National Water Policy of Pakistan | Dr. Qazi Tallat M. Siddiqui |
| 797 | Impact of Excess Groundwater Pumping and its Remedial Measures in Irrigated Area of Bari Doab, Punjab, Pakistan | Engr. Dr. Muhammad Saeed, Engr. Dr. Muhammad Basharat, Engr. Muhammad Jawad |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 798 | Water Quality Evaluation of Khanpur Dam through Physiochemical and Microbial Analysis, | Mr. Sohaib Zia, Engr. Dr. Imran Hashmi |
| 799 | Water Resource Management in Pakistan National and Provincial Perspectives on Institutions and Policies | Dr. Mahmood Ahmad, Tabeer Riaz |
| 800 | Comparative Analysis of Physical and Numerical Hydraulic Model Study of Rehabilitation and up-gradation of Panjnad Barrage | Engr. Muhammad Muneeb Khan, Engr. Muhammad Mohsin Munir, Engr. Raza-ur-Rehman Abbasi, Engr. Javed Munir, Engr. Mansoor Ali |
| 801 | Review on Aerobic Wastewater Treatment and Role of Biotechnology | Ms. Nida Maqbool, Mr. Sher Jamal Khan |
| 802 | Modeling of Future Discharge Projection and Estimation of Snow / Ice Melt Contributions from the Glacierized Hunza River Basin Pakistan | Syed Hammad Ali, Muhammad Arshad Pervez, Mujahid Tanveer Ahmad, Rijan Bhakta Kayastha, Richard Armstrong |
| 803 | Groundwater Prospectus, Challenges and Management Strategies in Indus Basin | Ghulam Nabi, Noor Muhammad Khan, Muhammad Waseem, Habib-ur-Rehman, Ijaz Ahmad |

**Volume – LXXVI – 2021 (2020-2021)**

| | | |
|---|---|---|
| 804 | Rehabilitation and Modernization of Sulemanki Barrage | Engr. Syed Mansoob Ali Zaidi, Engr. Amjad Saeed |
| 805 | Technical Paper on A Safer, Greener Motorway in Pakistan Sukkur – Multan Motorway | Dr. Muhammad Aslam Khan, Engr. Muhammad Iqbal Khokar |
| 806 | Water Resources Management in Punjab, Pakistan | Dr. Muhammad Nawaz Bhutta |
| 807 | Climate Change Assessment: A Case Study of Mohmand Dam Project | Engr. Muhammad Shariq Ahmed |
| 808 | Accuracy assessment of different models used in WAPDA for flow forecasting in different catchments of UIB | Syed Hammad Ali, Mr. Adeel Hassan, Mr. Wasim Khan |

| Sr. No. | Title of Paper | Author |
|---|---|---|
| 809 | Technical Perspective of Industrial Estates/SEZs in CPEC & Impact on Industrial Sectors in Pakistan | Engr. Mohsin Syed |
| 810 | Geotechnical Characterization of Precambrian Limestone at a Cement Plant Site in Iskandarabad | Engr. Sohail Kibria, Mr. Muhammad Ali, Mr. M. Umar Aziz Khan |
| 811 | Developing an E-commerce Platform for Dry Fruits | Engr. Muhammad Moazzam, Engr. Mahnoor Nadeem, Engr. Rameesha Sajwar, Engr. Tabish Sherbaz, Engr. Zakarya Khan |
| 812 | Commercial Operation of 2.82 MW Pakpattan Hydropower Project on Irrigation Canal in Punjab Pakistan | Engr. Dr. Mazhar Hussain Mahu |
| 813 | Rethinking Institutional and Organizational Structure to Implement National Water Policy Goals | Dr. Bakhsal Khan Lashari, Waqas Ahmed, Shahid Panhwar, Muhammad Arfan |
| 814 | Climate Change Impact on Snow-Cum-Glacial Melt Flows of Western Rivers in Early Kharif and its Mitigation | Engr. Riaz Nazir Tarar |
| 815 | Understanding Rural Highway Safety Requirements and Engineering Solutions | Engr. Zubair Emran Khawaja |
| 816 | Upgradation of Pakistan Railways Main Line-1 (ML-1) – A CPEC Project | Engr. Abdul Rehmen Chaudhry |
| 817 | Hydrologic impact of climate change on planned hydro dams in swat river basin | Engr. Saleem Sarwar, Ms. Hira Sattar |
| 818 | The Impact of Capital Gain Tax on Land Speculation Phenomenon – Evidence from Lahore, Pakistan | Engr. Muhammad Usman Tahir, Dr. Rizwan Hameed |