

---

# Irrigation Engineering From Nptel

---

Study of Engineering and Career  
 Hydrologic Frequency Analysis  
 Water Resources Systems Planning and Management  
 Building Materials in Civil Engineering  
 Engineering Hydrology  
 Principles, Analysis and Design  
 Proceedings of IGC 2018  
 Sensing Technologies For Precision Irrigation  
 12th International Conference on Transport Systems Telematics, TST 2012, Katowice-Ustron, Poland, October 10--13, 2012, Selected Papers  
 Design: Creation of Artifacts in Society  
 A Career Guidance Hand Book for Engineering Students  
 Finance for Engineers  
 Databases in Networked Information Systems  
 Geohazards  
 Global Case Studies in Mitigation and Recovery  
 13th International Conference on Transport Systems Telematics, TST 2013, Katowice-Ustron, Poland, October 23--26, 2013. Proceedings  
 Proceedings of the INAE-CAETS-IITM Conference  
 Fluid, Solid, Slurry and Multiphase Flow  
 Computer Fundamentals  
 Irrigation and Water Resources Engineering  
 Urban Ecology, Water Quality and Climate Change  
 Plant Flow Measurement and Control Handbook  
 Geotechnical Characterization and Modelling  
 Irrigation Glossary  
 Open Source Technology: Concepts, Methodologies, Tools, and Applications  
 International Engineering Education  
 Routledge Handbook of Transportation  
 Telematics in the Transport Environment  
 Engineering and Design  
 Evaluation and Funding of Capital Projects  
 Select Proceedings of ICRAEM 2020  
 Harvesting Rainwater from Buildings  
 Impact of Digitalization on Society  
 Recent Advances in Computational and Experimental Mechanics, Vol—I  
 Hydrology  
 Problematic Soils and Geoenvironmental Concerns  
 Design, Operation, and Management  
 Frontiers in Geotechnical Engineering

*Irrigation Engineering*  
From Nptel

Downloaded from  
<ftp.wtvq.com> by guest

---

## JAKOB SARA

---

*Study of Engineering and Career* Springer Nature

Computer Fundamentals is specifically designed to be used at the beginner level. It covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner.

*Hydrologic Frequency Analysis* IGI Global  
Completely updated and with three new chapters, this analysis of river dynamics is invaluable for advanced students, researchers and practitioners.

*Water Resources Systems Planning and Management* Springer

This book constitutes the proceedings of the 13th International Conference on Transport Systems Telematics, TST 2013,

held in Katowice-Ustron, Poland, in October 2013. The 58 papers included in this volume were carefully reviewed and selected for inclusion in this book. They provide an overview of solutions being developed in the field of intelligent transportation systems, and include theoretical and case studies in the countries of conference participants.

**Building Materials in Civil Engineering**  
New Age International

This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume focuses on discussing the many challenges encountered in geoenvironmental engineering. The book covers sustainability aspects related to geotechnical engineering, problematic soils and ground improvement, use of geosynthetics and concepts of soil

dynamics. The contents of this book will be useful to researchers and professionals working in geo-environmental engineering and to policy makers interested in understanding geotechnical concerns related to sustainable development.

**Engineering Hydrology** Micro Irrigation Engineering for Horticultural Crops  
Policy Options, Scheduling, and Design

This book captures the perspectives on international engineering education of fellows from nine member academies of the Council of Academies of Engineering and Technological Sciences (CAETS). The volume includes papers on the challenges and opportunities facing the education of engineers in the 21st century, and papers relating to globalization and its impact on engineering education worldwide. The response to and exploitation of change by the European engineering education

system are described, and the Chinese initiatives in promoting innovation in engineering and architecture are revealed. It also includes a perspective on engineering education in Canada, and describes in detail the groundbreaking Indian National Programme on Technology-Enhanced Learning. The highly topical issues relating to engineering ethics are dealt with from the Japanese and Indian perspectives. This volume brings together the viewpoints of the international engineering education community which assume enhanced significance in the 'flattening' world of today and tomorrow.

*Principles, Analysis and Design* Academic Press

The present book describes in detail all aspects of rainwater harvesting, including the basic concepts, procedures, opportunities and practice of rainwater harvesting mainly focusing its application in buildings of various occupancies and sizes. It provides a user-friendly methodology for the planning, design, construction and maintenance of rainwater harvesting infrastructure, in buildings and its premise, as a supplement to conventional water supplies. It highlights the application of plumbing technology, which is an important aspect of rainwater harvesting in buildings. It also includes global rainfall scenario and brief notes on all the elements of rainwater harvesting used in buildings. It is a valuable reference resource for policy and decision-makers, as well as for engineers, architects and students.

New Age International

With the perpetual advancements of technology, library and information science professionals are tasked with understanding these technologies and providing accurate and comprehensive information to other potential users. These professionals must develop best practices for understanding these technologies in order to best serve other users. The Handbook of Research on Emerging Trends and Technologies in Library and Information Science is a critical research book that examines advancing technologies and new innovations and their influences on library and information sciences for improved best practices. Featuring an array of topics such as digital libraries, distance education, and information literacy, this publication is essential for librarians, knowledge managers, information retrieval specialists, library and information science professionals, information scientists, researchers, web librarians, academicians, educators, IT specialists, and managers.

**Proceedings of IGC 2018** Karl T. Ulrich

This book describes treatment of urban solid waste with reference to the principles or steps of ISWM especially in the Indian context. Both engineering and management practices have been discussed in detail. Characteristics of urban solid waste are influenced by the economic and social status of the generators and the climatic conditions. Therefore Indian scenario of the generation and treatment of urban solid waste is explained in the backdrop of international status. Since the field is an interdisciplinary one, environmental and public health issues are also addressed. Latest technologies as well as current rules and regulations applicable in India are compiled for ready reference.

*Sensing Technologies For Precision Irrigation* Springer Science & Business Media

The objective of frequency analysis in a hydrologic context is to infer the probability that various size events will be exceeded or not exceeded from a given sample of recorded events. Two basic problems exist for most hydrologic applications. First the sample is usually small, by statistical standards, resulting in uncertainty as to the true probability. And secondly, a single theoretical frequency distribution does not always fit a particular data-type equally well in all applications. This manual provides guidance in fitting frequency distributions and construction of confidence limits. Techniques are presented which can possibly reduce the errors caused by small sample sizes. Also, some types of data are noted which usually do not fit any theoretical distributions.

*12th International Conference on Transport Systems Telematics, TST 2012, Katowice-Ustron, Poland, October 10--13, 2012, Selected Papers* Springer Nature

The book is primarily aimed at the undergraduate students and practising engineers may find it useful to brush-up their concepts and to know about the latest developments in the field of Hydrology. The objective, is to convey the concepts to students in a simple and easily understandable manner and to also have sufficient advanced level material to arouse the curiosity of those who want to look beyond their curriculum. Salient Features: - Last two chapters describe the application of concepts like, precipitation, evapotranspiration, infiltration etc - Discusses SCS method in detail - Coverage on estimation of the direction of ground water from head measured in different wells

**Design: Creation of Artifacts in**

**Society** CRC Press

This book constitutes the refereed proceedings of the 10th International Workshop on Databases in Networked Information Systems, DNIS 2015, held in Aizu-Wakamatsu, Japan, March 2015. The 14 revised full papers presented together with 7 invited papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on big data analysis, information and knowledge management, business data analytics and visualization, networked information resources, and business data analytics in astronomy and sciences.

*A Career Guidance Hand Book for Engineering Students* Springer Science & Business Media

Plant Flow Measurement and Control Handbook is a comprehensive reference source for practicing engineers in the field of instrumentation and controls. It covers many practical topics, such as installation, maintenance and potential issues, giving an overview of available techniques, along with recommendations for application. In addition, it covers available flow sensors, such as automation and control. The author brings his 35 years of experience in working in instrumentation and control within the industry to this title with a focus on fluid flow measurement, its importance in plant design and the appropriate control of processes. The book provides a good balance between practical issues and theory and is fully supported with industry case studies and a high level of illustrations to assist learning. It is unique in its coverage of multiphase flow, solid flow, process connection to the plant, flow computation and control. Readers will not only further understand design, but they will also further comprehend integration tactics that can be applied to the plant through a step-by-step design process that goes from installation to operation. Provides specification sheets, engineering drawings, calibration procedures and installation practices for each type of measurement. Presents the correct flow meter that is suitable for a particular application. Includes a selection table and step-by-step guide to help users make the best decision. Cover examples and applications from engineering practice that will aid in understanding and application.

*Finance for Engineers* Springer Nature

This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume discusses concepts of soil dynamics and studies related to earthquake geotechnical engineering, slope stability, and

landslides. The papers presented in this volume analyze failures connected to geotechnical and geological origins to improve professional practice, codes of analysis and design. This volume will prove useful to researchers and practitioners alike.

Elsevier

This volume contains contributions by eminent researchers in the field of geotechnical engineering. The chapters of this book are based on the keynote and theme lectures delivered at the Indian Geotechnical Conference 2018, and discuss the recent issues and challenges, while providing perspective on the possible solutions and future directions. A strong emphasis is placed on proving connections between academic research and field practice, with many examples and case studies. Topics covered in this volume include contemporary infrastructural challenges, underground space utilization, sustainable construction, dealing with problematic soils and situations and geo-environmental issues including landfills. This book will be of interest to researchers, practitioners and students alike.

*Databases in Networked Information Systems* Notion Press

This volume comprises select papers presented during the Indian Geotechnical Conference 2018, discussing issues and challenges relating to the characterization of geomaterials, modelling approaches, and geotechnical engineering education. With a combination of field studies, laboratory experiments and modelling approaches, the chapters in this volume address some of the most widely investigated geotechnical engineering topics. This volume will be of interest to researchers and practitioners alike.

*Geohazards* Springer Nature

The papers in these two volumes were presented at the International Conference on "NexGen Technologies for Mining and Fuel Industries" [NxGnMiFu-2017] in New Delhi from February 15-17, 2017, organized by CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India. The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and Stability Analysis, Advances in Explosives and Blasting, Mine Safety and Risk Management, Computer Simulation and Mine Automation, Natural Resource Management for Sustainable Development, Environmental Impacts and Remediation, Paste Fill Technology and

Waste Utilisation, Fly Ash Management, Clean Coal Initiatives, Mineral Processing and Coal Beneficiation, Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a must-have for researchers and engineers working in the areas of mining technologies and fuel sciences.

*Global Case Studies in Mitigation and Recovery* Springer Nature

This book presents a variety of policy adoption methods, irrigation scheduling, and design procedures in micro irrigation engineering for horticultural crops. The chapters range from policy interventions to applications of systems for different crops and under different land conditions. Compiling valuable information and research, the book is divided into three main sections: Policy Options: Drip Irrigation Among Adopters Irrigation Scheduling of Horticultural Crops Design of Drip Irrigation Systems The editors present valuable research and information on micro irrigation methods in an effort to focus on innovation and evolving new paradigms for efficient utilization of water resources. The adoption of micro irrigation systems can be a panacea for irrigation related problems and can help to increase the yield and area under cultivation, especially for small farmers without abundant technological resources. Micro Irrigation Engineering for Horticultural Crops: Policy Options, Scheduling, and Design will be valuable for agricultural engineering students, irrigation engineers, and scientists/professors in engineering.

13th International Conference on Transport Systems Telematics, TST 2013, Katowice-Ustron, Poland, October 23--26, 2013. Proceedings Elsevier

An attempt is made to place before students (degree and post-degree) and professionals in the fields of Civil and Agricultural Engineering, Geology and Earth Sciences, this important branch of Hydroscience, i.e., Hydrology. It deals with all phases of the Hydrologic cycle and related topics in a lucid style and in metric system. There is a departure from empiricism, with emphasis on collection of hydrological data, processing and analysis of data, and hydrological design on sound principles and matured judgement. Large number of hydrological design problems are worked out at the end of each article, to illustrate the principles involved and the design procedure. Problems for assignment are given at the end of each

chapter, along with objective type and intelligence questions.

**Proceedings of the INAE-CAETS-IITM Conference** CRC Press

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc. The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17. The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

*Fluid, Solid, Slurry and Multiphase Flow* Springer

This revised edition is restructured with additional text and extensive illustrations, along with developments in geotechnical literature. Among the topics included are: soil aggregates, stresses in soil mass, pore water pressure due to undrained loading, permeability and seepage, consolidation, shear strength of soils, and evaluation of soil settlement. The text presents mathematical derivations as well as numerous worked-out examples.