

2014 N4 Engineering External Question Paper

Data-intensive Text Processing with
MapReduceApplied Statistics and Probability for
EngineersUnderstanding Machine LearningData
Structures and Algorithm Analysis in C++Data
Structures and Algorithms in JavaApplied Thematic
AnalysisElectronics and Circuit Analysis Using
MATLABIntroduction to Educational ResearchTextbook
of Engineering DrawingNuclear Medicine
PhysicsEntrepreneurship and Business
ManagementHandbook of Youth
MentoringFoundations of Data ScienceEssentials of
Marketing ResearchIntroduction to High Performance
Scientific ComputingMATLABSchool, Family, and
Community PartnershipsComputer and
Communication NetworksBusiness Management
WorkbookPhysical and Chemical Processes in the
Aquatic EnvironmentAn Engineer's Guide to
MathematicaNonsampling Error in Social
SurveysAdvanced Methods of Structural
AnalysisStochastic SystemsFactorial Survey
ExperimentsMechanical Vibrations: Theory and
ApplicationsMachine DrawingResearch
FoundationsMining of Massive DatasetsEngineering
VibrationValidity in Educational and Psychological
AssessmentCommerce Business DailyModern Control
EngineeringOptimization ModelsAlgorithm
DesignEngineering OptimizationMathematics for
Computer ScienceDigital Terrain ModelingVibration
with ControlWater and the Laws in India

Data-intensive Text Processing with MapReduce

The C++ language is brought up-to-date and simplified, and the Standard Template Library is now fully incorporated throughout the text. Data Structures and Algorithm Analysis in C++ is logically organized to cover advanced data structures topics from binary heaps to sorting to NP-completeness. Figures and examples illustrating successive stages of algorithms contribute to Weiss' careful, rigorous and in-depth analysis of each type of algorithm.

Applied Statistics and Probability for Engineers

This book provides step-by-step instructions on how to analyze text generated from in-depth interviews and focus groups, relating predominantly to applied qualitative studies. The book covers all aspects of the qualitative data analysis process, employing a phenomenological approach which has a primary aim of describing the experiences and perceptions of research participants. Similar to Grounded Theory, the authors' approach is inductive, content-driven, and searches for themes within textual data.

Understanding Machine Learning

This accessible textbook demonstrates how to recognize, simplify, model and solve optimization problems - and apply these principles to new projects.

Data Structures and Algorithm Analysis in C++

For one/two-semester introductory courses in vibration for undergraduates in Mechanical Engineering, Civil Engineering, Aerospace Engineering and Mechanics Serving as both a text and reference manual, *Engineering Vibration, 4e*, connects traditional design-oriented topics, the introduction of modal analysis, and the use of MATLAB, Mathcad, or Mathematica. The author provides an unequalled combination of the study of conventional vibration with the use of vibration design, computation, analysis and testing in various engineering applications. Teaching and Learning Experience To provide a better teaching and learning experience, for both instructors and students, this program will:

- *Apply Theory and/or Research: An unequalled combination of the study of conventional vibration with the use of vibration design, computation, analysis and testing in various engineering applications.
- *Prepare Students for their Career: Integrated computational software packages provide students with skills required by industry.

Data Structures and Algorithms in Java

Applied Thematic Analysis

This thoroughly updated Second Edition of the *Handbook of Youth Mentoring* presents the only comprehensive synthesis of current theory, research,

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and practice in the field of youth mentoring. Editors David L. DuBois and Michael J. Karcher gather leading experts in the field to offer critical and informative analyses of the full spectrum of topics that are essential to advancing our understanding of the principles for effective mentoring of young people. This volume includes twenty new chapter topics and eighteen completely revised chapters based on the latest research on these topics. Each chapter has been reviewed by leading practitioners, making this handbook the strongest bridge between research and practice available in the field of youth mentoring.

Electronics and Circuit Analysis Using MATLAB

Free Mathematica 10 Update Included! Now available from www.wiley.com/go/magrab Updated material includes: - Creating regions and volumes of arbitrary shape and determining their properties: arc length, area, centroid, and area moment of inertia - Performing integrations, solving equations, and determining the maximum and minimum values over regions of arbitrary shape - Solving numerically a class of linear second order partial differential equations in regions of arbitrary shape using finite elements An Engineer's Guide to Mathematica enables the reader to attain the skills to create Mathematica 9 programs that solve a wide range of engineering problems and that display the results with annotated graphics. This book can be used to learn Mathematica, as a companion to engineering texts, and also as a reference for obtaining numerical

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and symbolic solutions to a wide range of engineering topics. The material is presented in an engineering context and the creation of interactive graphics is emphasized. The first part of the book introduces Mathematica's syntax and commands useful in solving engineering problems. Tables are used extensively to illustrate families of commands and the effects that different options have on their output. From these tables, one can easily determine which options will satisfy one's current needs. The order of the material is introduced so that the engineering applicability of the examples increases as one progresses through the chapters. The second part of the book obtains solutions to representative classes of problems in a wide range of engineering specialties. Here, the majority of the solutions are presented as interactive graphics so that the results can be explored parametrically. Key features: Material is based on Mathematica 9 Presents over 85 examples on a wide range of engineering topics, including vibrations, controls, fluids, heat transfer, structures, statistics, engineering mathematics, and optimization Each chapter contains a summary table of the Mathematica commands used for ease of reference Includes a table of applications summarizing all of the engineering examples presented. Accompanied by a website containing Mathematica notebooks of all the numbered examples An Engineer's Guide to Mathematica is a must-have reference for practitioners, and graduate and undergraduate students who want to learn how to solve engineering problems with Mathematica.

Introduction to Educational Research

MATLAB is an indispensable asset for scientists, researchers, and engineers. The richness of the MATLAB computational environment combined with an integrated development environment (IDE) and straightforward interface, toolkits, and simulation and modeling capabilities, creates a research and development tool that has no equal. From quick code prototyping to full blown deployable applications, MATLAB stands as a de facto development language and environment serving the technical needs of a wide range of users. As a collection of diverse applications, each book chapter presents a novel application and use of MATLAB for a specific result.

Textbook of Engineering Drawing

"Introduction to Educational Research: A Critical Thinking Approach 2e is an engaging and informative core text that enables students to think clearly and critically about the scientific process of research. In achieving its goal to make research accessible to all educators and equip them with the skills to understand and evaluate published research, the text examines how educational research is conducted across the major traditions of quantitative, qualitative, mixed methods, and action research. The text is oriented toward consumers of educational research and uses a thinking-skills approach to its coverage of major ideas"--

Nuclear Medicine Physics

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Computer and Communication Networks, Second Edition, explains the modern technologies of networking and communications, preparing you to analyze and simulate complex networks, and to design cost-effective networks for emerging requirements. Offering uniquely balanced coverage of basic and advanced topics, it teaches through case studies, realistic examples and exercises, and intuitive illustrations. Nader F. Mir establishes a solid foundation in basic networking concepts; TCP/IP schemes; wireless and LTE networks; Internet applications, such as Web and e-mail; and network security. Then, he delves into both network analysis and advanced networking protocols, VoIP, cloud-based multimedia networking, SDN, and virtualized networks. In this new edition, Mir provides updated, practical, scenario-based information that many networking books lack, offering a uniquely effective blend of theory and implementation. Drawing on extensive field experience, he presents many contemporary applications and covers key topics that other texts overlook, including P2P and voice/video networking, SDN, information-centric networking, and modern router/switch design. Students, researchers, and networking professionals will find up-to-date, thorough coverage of Packet switching Internet protocols (including IPv6) Networking devices Links and link interfaces LANs, WANs, and Internetworking Multicast routing, and protocols Wide area wireless networks and LTE Transport and end-to-end protocols Network applications and management Network security Network queues and delay analysis Advanced router/switch architecture QoS and scheduling

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Tunneling, VPNs, and MPLS All-optical networks, WDM, and GMPLS Cloud computing and network virtualization Software defined networking (SDN) VoIP signaling Media exchange and voice/video compression Distributed/cloud-based multimedia networks Mobile ad hoc networks Wireless sensor networks Key features include More than three hundred fifty figures that simplify complex topics Numerous algorithms that summarize key networking protocols and equations Up-to-date case studies illuminating concepts and theory Approximately four hundred exercises and examples honed over Mir's twenty years of teaching networking

Entrepreneurship and Business Management

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Handbook of Youth Mentoring

Foundations of Data Science

About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Essentials of Marketing Research

Introduction to High Performance Scientific Computing

Since its origins in the 1940s, the subject of decision making under uncertainty has grown into a diversified area with application in several branches of engineering and in those areas of the social sciences concerned with policy analysis and prescription. These approaches required a computing capacity too expensive for the time, until the ability to collect and process huge quantities of data engendered an explosion of work in the area. This book provides succinct and rigorous treatment of the foundations of stochastic control; a unified approach to filtering, estimation, prediction, and stochastic and adaptive control; and the conceptual framework necessary to understand current trends in stochastic control, data mining, machine learning, and robotics.

MATLAB

A Rigorous Mathematical Approach To Identifying A Set Of Design Alternatives And Selecting The Best Candidate From Within That Set, Engineering Optimization Was Developed As A Means Of Helping Engineers To Design Systems That Are Both More Efficient And Less Expensive And To Develop New Ways Of Improving The Performance Of Existing Systems.Thanks To The Breathtaking Growth In Computer Technology That Has Occurred Over The

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Past Decade, Optimization Techniques Can Now Be Used To Find Creative Solutions To Larger, More Complex Problems Than Ever Before. As A Consequence, Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries, Especially The Aerospace, Automotive, Chemical, Electrical, And Manufacturing Industries. In Engineering Optimization, Professor Singiresu S. Rao Provides An Application-Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries. Essential Proofs And Explanations Of The Various Techniques Are Given In A Straightforward, User-Friendly Manner, And Each Method Is Copiously Illustrated With Real-World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Project Design. Comprehensive, Authoritative, Up-To-Date, Engineering Optimization Provides In-Depth Coverage Of Linear And Nonlinear Programming, Dynamic Programming, Integer Programming, And Stochastic Programming Techniques As Well As Several Breakthrough Methods, Including Genetic Algorithms, Simulated Annealing, And Neural Network-Based And Fuzzy Optimization Techniques. Designed To Function Equally Well As Either A Professional Reference Or A Graduate-Level Text, Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields, As Well As Review Questions, Important Figures, And Helpful References. Engineering Optimization Is A Valuable Working Resource For Engineers Employed In Practically All Technological Industries. It Is Also A

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Superior Didactic Tool For Graduate Students Of Mechanical, Civil, Electrical, Chemical And Aerospace Engineering.

School, Family, and Community Partnerships

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

Computer and Communication Networks

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in

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computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science. August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age.

Business Management Workbook

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

Physical and Chemical Processes in the Aquatic Environment

Lecturers, request your electronic inspection copy to review it for your course. Validity is the hallmark of quality for educational and psychological measurement. But what does quality mean in this context? And to what, exactly, does the concept of validity apply? These apparently innocuous questions parachute the unwary inquirer into a minefield of tricky ideas. This book guides you through this minefield, investigating how the concept of validity has evolved from the nineteenth century to the present day. Communicating complicated concepts straightforwardly, the authors answer questions like: What does 'validity' mean? What does it mean to 'validate'? How many different kinds of validity are there? When does validation begin and end? Is reliability a part of validity, or distinct from it? This book will be of interest to anyone with a professional

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or academic interest in evaluating the quality of educational or psychological assessments, measurements and diagnoses.

An Engineer's Guide to Mathematica

Filling a gap in the literature of the field, Factorial Survey Experiments provides researchers with a practical guide to using the factorial survey method to assess respondents' beliefs about the world, judgment principles, or decision rules through multi-dimensional stimuli ("vignettes") that resemble real-life decision-making situations. Using insightful examples to illustrate their arguments, authors Katrin Auspurg and Thomas Hinz guide researchers through all relevant steps, including how to set up the factorial experimental design (drawing samples of vignettes and respondents), how to handle the practical challenges that must be mastered when an experimental plan with many different treatments is embedded in a survey format, and how to deal with questions of data analysis. In addition to providing the "how-tos" of designing factorial survey experiments, the authors cover recent developments of similar methods, such as conjoint analyses, choice experiments, and more advanced statistical tools.

Nonsampling Error in Social Surveys

Globalization has fueled the growth of entrepreneurship. Starting a new venture involves risk taking as well as capital investment. This book delves into all the varied aspects of entrepreneurship. The

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impact of economic policies, finances, opportunity and capacity are some of the topics covered in this text. It will prove beneficial to students, scholars, professionals, aspiring entrepreneurs, etc.

Advanced Methods of Structural Analysis

A welcome and much-needed addition to the literature on survey data quality in social research, *Nonsampling Error in Social Surveys*, by David E. McNabb, examines the most common sources of nonsampling error: frame error; measurement error; response error, nonresponse error, and interviewer error. Offering the only comprehensive and non-technical treatment available, the book's focus on controlling error shows readers how to eliminate the opportunity for error to occur, and features revealing examples of past and current efforts to control the incidence and effects of nonsampling error. Most importantly, it gives readers the tools they need to understand, identify, address, and prevent the most prevalent and difficult-to-control types of survey errors.

Stochastic Systems

Factorial Survey Experiments

This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to

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nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

Mechanical Vibrations: Theory and Applications

This book is divided into three parts: introduction, applications of MATLAB in circuit analysis, and electronics applications. Topics covered include direct current, transient analysis, Fourier analysis, diodes, semiconductor physics, operational amplifiers, and transistor circuits. The book contains extensive examples as well as a diskette -- illustrating the principles and applications of electronics and circuit analysis with MATLAB.

Machine Drawing

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on

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massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com

Research Foundations

Text for a first course in control systems, revised (1st ed. was 1970) to include new subjects such as the pole placement approach to the design of control systems, design of observers, and computer simulation of control systems. For senior engineering students. Annotation copyright Book News, Inc.

Mining of Massive Datasets

Engineering Vibration

Engineers are becoming increasingly aware of the problems caused by vibration in engineering design, particularly in the areas of structural health monitoring and smart structures. Vibration is a constant problem as it can impair performance and lead to fatigue, damage and the failure of a structure. Control of vibration is a key factor in preventing such detrimental results. This book presents a homogenous treatment of vibration by including those factors from control that are relevant to modern vibration analysis, design and measurement. Vibration and control are established on a firm mathematical basis and the disciplines of vibration, control, linear algebra, matrix computations, and applied functional analysis are connected. Key Features: Assimilates the discipline of contemporary structural vibration with active control Introduces the use of Matlab into the solution of vibration and vibration control problems Provides a unique blend of practical and theoretical developments Contains examples and problems along with a solutions manual and power point presentations Vibration with Control is an essential text for practitioners, researchers, and graduate students as it can be used as a reference text for its complex chapters and topics, or in a tutorial setting for those improving their knowledge of vibration and learning about control for the first time. Whether or not you are familiar with vibration and control, this

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book is an excellent introduction to this emerging and increasingly important engineering discipline.

Validity in Educational and Psychological Assessment

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

Commerce Business Daily

Essentials of Marketing Research: Putting Research

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into Practice, an exciting new practical guide by Kenneth E. Clow and Karen E. James offers a hands-on, applied approach to developing the fundamental data analysis skills necessary for making better management decisions using marketing research results. Each chapter opens by describing an actual research study related to the chapter content, with rich examples of contemporary research practices skillfully drawn from interviews with marketing research professionals and published practitioner studies. Clow and James explore the latest research techniques, including social media and other online methodologies, and they examine current statistical methods of analyzing data. With emphasis on how to interpret marketing research results and how to use those findings to make effective management decisions, the authors offer a unique learning-by-doing approach to understanding data analysis, interpreting data, and applying results to decision-making.

Modern Control Engineering

Data Structures and Algorithms in Java, Second Edition is designed to be easy to read and understand although the topic itself is complicated. Algorithms are the procedures that software programs use to manipulate data structures. Besides clear and simple example programs, the author includes a workshop as a small demonstration program executable on a Web browser. The programs demonstrate in graphical form what data structures look like and how they operate. In the second edition, the program is rewritten to

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improve operation and clarify the algorithms, the example programs are revised to work with the latest version of the Java JDK, and questions and exercises will be added at the end of each chapter making the book even more useful. Educational Supplement Suggested solutions to the programming projects found at the end of each chapter are made available to instructors at recognized educational institutions. This educational supplement can be found at www.prenhall.com, in the Instructor Resource Center.

Optimization Models

Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set

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including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Algorithm Design

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Engineering Optimization

Salient Features: Provided simple step by step explanations to motivate self study of the subject. Free hand sketching techniques are provided. Worksheets for free hand practice are provided. A new chapter on Computer Aided Design and Drawing (CADD) is added.

Mathematics for Computer Science

Written by experts, Digital Terrain Modeling: Principles and Methodology provides comprehensive

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coverage of recent developments in the field. The topics include terrain analysis, sampling strategy, acquisition methodology, surface modeling principles, triangulation algorithms, interpolation techniques, on-line and off-line quality control in data acquisition, DTM accuracy assessment and mathematical models for DTM accuracy prediction, multi-scale representation, data management, contouring, visual analysis (or visualization), the derivation of various types of terrain parameters, and future development and applications.

Digital Terrain Modeling

Designing research can be daunting and disorienting for novices. After experiencing this first hand, author Douglas Woodwell has written *Research Foundations: How Do We Know What We Know?*, a book that shows how to mentally frame research in a way that is understandable and approachable while also discussing some of the more specific issues that will aid the reader in understanding the options available. Stressing the link between research and theory-building, this concise book shows students how new knowledge is discovered through the process of research. The author presents a model that ties together research processes across the various traditions and shows how different types of research interrelate. The book is sophisticated in its presentation, but uses plain language to provide an explanation of higher-level concepts in an engaging manner. Throughout the book, the author treats research methodologies as a blueprint for answering

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a wide range of interesting questions, rather than simply a set of tools to be applied. The book is an excellent guide for students who will be consumers of research and who need to understand how theory and research interrelate.

Vibration with Control

Laws relating to water in India have diverse origins, including ancient local customs and the British Common Law. The in-depth chapters in this compendium, written by luminaries from various fields, pertain to issues on water and proceed to a discussion of the legal questions that arise. This volume thus straddles two domains, viz., (i) water-resource policy, management, conservation, conflict-resolution, etc., and (ii) water law. The book also briefly raises and explores the case for a constitutional declaration on water and an overarching national water law. The book is an invaluable resource for policy-makers, planners and administrators concerned with water at the Central, State and local levels; students, academics and practitioners in the domains of water as well as law; and social scientists, NGOs and activists concerned with the various issues discussed in the book. It should be useful as a main or supplementary textbook in universities and research or management institutions where any aspect of water (engineering, ecological, legal, social, economic, management or other) is a subject of study.

Water and the Laws in India

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Advanced Methods of Structural Analysis aims to help its readers navigate through the vast field of structural analysis. The book aims to help its readers master the numerous methods used in structural analysis by focusing on the principal concepts, as well as the advantages and disadvantages of each method. The end result is a guide to mastering the many intricacies of the plethora of methods of structural analysis. The book differentiates itself from other volumes in the field by focusing on the following:

- Extended analysis of beams, trusses, frames, arches and cables
- Extensive application of influence lines for analysis of structures
- Simple and effective procedures for computation of deflections
- Introduction to plastic analysis, stability, and free vibration analysis

Authors Igor A. Karnovsky and Olga Lebed have crafted a must-read book for civil and structural engineers, as well as researchers and students with an interest in perfecting structural analysis. Advanced Methods of Structural Analysis also offers numerous example problems, accompanied by detailed solutions and discussion of the results.

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