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Journal of Engineering Mechanics Guilford Publications

This book deals with complex problems in the fields of logistics and supply chain management and discusses advanced methods, especially from the field of computational intelligence (CI), for solving them. The first two chapters provide general introductions to logistics and supply chain management on the one hand, and to computational intelligence on the other hand. The subsequent chapters cover specific fields in logistics and supply chain management, work out the most relevant problems found in those fields, and discuss approaches for solving them. Chapter 3 discusses problems in the field of production and inventory management. Chapter 4 considers planning activities on a finer level of granularity which is usually denoted as scheduling. In chapter 5 problems in transportation planning such as different types of vehicle routing problems are considered. While chapters 3 to 5 rather discuss planning problems which appear on an operative level, chapter 6 discusses the strategic problem of designing a supply chain or network. The final chapter provides an overview of academic and commercial software and information systems for the discussed applications. There appears to be a gap between general textbooks on logistics and supply chain management and more specialized literature dealing with methods for computational intelligence, operations research, etc., for solving the complex operational problems in these fields. For readers, it is often difficult to proceed from introductory texts on logistics and supply chain management to the sophisticated literature which deals with the usage of advanced methods. This book fills this gap by providing state-of-the-art descriptions of the corresponding problems and suitable methods for solving them.

Geophysical Abstracts Harmony

"Virtually every biological function in humans depends on normal sleep homeostasis to maintain normalcy. As will be evidenced throughout this volume, sleep and its disturbance are intimately linked to normal brain function and psychiatric disorders, respectively" --

[The Complementary and Alternative Medicine Information Source Book](#) Oxford University Press, USA

Offering the perspective of seasoned surgeons who have seen, thought about, and worked through the common and uncommon problems that can arise in aesthetic breast surgery, this book serves as a reference to guide surgeons through the steps of understanding, potentially avoiding, and then treating these issues. *Managing Common and Uncommon Complications of Aesthetic Breast Surgery* is methodical in its approach, beginning with key relevant highlight of embryology and anatomy of the breast and continuing into common problems in breast surgery, implant-related surgery, breast lifts and reductions. A variety of pitfalls are also explored from rupture, capsular contracture, and implant malposition to the rare and uncommon surface-texture related lymphoma. Every process is explored in depth with carefully crafted, practical, and experientially tested solutions proposed. Featuring real patient photos, detailed tables, and high definition videos for supplemental learning, this text is a one-stop reference to help surgeons understand, manage, and treat complications in aesthetic breast surgery both common and uncommon.

[Preventing Hospital Infections](#) Springer Nature

Uses state-of-the-art computer technology to formulate displacement method with matrix algebra. Facilitates analysis of structural dynamics and applications to earthquake engineering and UBC and IBC seismic building codes.

[Reliability of Computer and Communication Networks](#) Academic Foundation

The third edition of this textbook comprehensively discusses global supply chain and operations management (SCOM), combining value creation networks and interacting processes. It focuses on operational roles within networks and presents the quantitative and organizational methods needed to plan and control the material, information, and financial flows in supply chains. Each chapter begins with an introductory case study, while numerous examples from various industries and services help to illustrate the key concepts. The book explains how to design operations and supply networks and how to incorporate suppliers and customers. It examines how to balance supply and demand, a core aspect of tactical planning, before turning to the allocation of resources to meet customer needs. In addition, the book presents state-of-the-art research reflecting the lessons learned from the COVID-19 pandemic, and emerging, fast-paced developments in the digitalization of supply chain and operations management. Providing readers with a working knowledge of global supply chain and operations management, with a focus on bridging the gap between theory and practice, this textbook can be used in core, specialized, and advanced classes alike. It is intended for a broad range of students and professionals in supply chain and operations management.

[Seismic Design of Industrial Facilities](#) BRILL

Artificial intelligence (AI) describes machines/computers that mimic cognitive functions that humans associate with other human minds, such as learning and problem solving. As businesses have evolved to include more automation of processes, it has become more vital to understand AI and its various applications. Additionally, it is important for workers in the marketing industry to understand how to coincide with and utilize these techniques to enhance and make their work more efficient. The *Handbook of Research on Applied AI for International Business and Marketing Applications* is a critical scholarly publication that provides comprehensive research on artificial intelligence applications within the context of international business. Highlighting a wide range of topics such as diversification, risk management, and artificial intelligence, this book is ideal for marketers, business professionals, academicians, practitioners, researchers, and students.

[Computational Intelligence in Logistics and Supply Chain Management](#) Springer Nature

This book features research work presented at the 2nd International Conference on Data Engineering and Communication Technology (ICDECT) held on December 15–16, 2017 at Symbiosis International University, Pune, Maharashtra, India. It discusses advanced, multi-disciplinary research

into smart computing, information systems and electronic systems, focusing on innovation paradigms in system knowledge, intelligence and sustainability that can be applied to provide feasible solutions to varied problems in society, the environment and industry. It also addresses the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in a variety of disciplines of computer science and electronics engineering.

[Indian Books in Print](#) CRC Press

This book constitutes the refereed proceedings of the 15th Annual European Symposium on Algorithms, ESA 2007, held in Eilat, Israel, in October 2007 in the context of the combined conference ALGO 2007. The 63 revised full papers presented together with abstracts of three invited lectures address all current subjects in algorithmics reaching from design and analysis issues of algorithms over to real-world applications and engineering of algorithms in various fields.

[Matrix Analysis of Structural Dynamics](#) Springer Nature

The fields of boundary integral equations and of inequality problems, or more generally, of nonsmooth mechanics, have seen, in a remarkably short time, a considerable development in mathematics and in theoretical and applied mechanics. The engineering sciences have also benefited from these developments in that open problems have been attacked successfully and entirely new methodologies have been developed. The contact problems of elasticity is a class of problems which has offered many open questions to deal with, both to the research workers working on the theory of boundary integral equations and to those working on the theory of inequality problems. Indeed, the area of static and dynamic contact problems could be considered as the testing workbench of the new developments in both the inequality problems and in the boundary integral equations. This book is a first attempt to formulate and study the boundary integral equations arising in inequality contact problems. The present book is a result of more than two decades of research and teaching activity of the first author on boundary integral equations and, of the second author, on inequality problems, as well as the outgrowth of seminars and courses for a variety of audiences in the Technical University of Aachen, the Aristotle University of Thessa Ioniki, the Universities of Bochum, of Hamburg and Braunschweig, the Pontificia Univ. Catolica in Rio de Janeiro etc.

[Handbook of Research on Applied AI for International Business and Marketing Applications](#) Springer

From the initial investigation of a crime to the sentencing of an offender, many everyday practices within the criminal justice system involve complex psychological processes. This volume analyzes the processes involved in such tasks as interviewing witnesses, detecting deception, and eliciting eyewitness reports and identification from adults and children. Factors that influence decision making by jurors and judges are examined as well. Throughout, findings from experimental research are translated into clear recommendations for improving the quality of evidence and the fairness of investigative and legal proceedings. The book also addresses salient methodological questions and identifies key directions for future investigation.

[Proceedings of the 2nd International Conference on Data Engineering and Communication Technology](#) Springer Nature

This book constitutes the refereed proceedings of the Second International Conference on Combinatorial Optimization and Applications, COCOA 2008, held in St. John's, Canada, in August 2008. The 44 revised full papers were carefully reviewed and selected from 84 submissions. The papers feature original research in the areas of combinatorial optimization -- both theoretical issues and applications motivated by real-world problems thus showing convincingly the usefulness and efficiency of the algorithms discussed in a practical setting.

[Proceedings of the Eleventh European Conference on Earthquake Engineering](#) Some Problems in Hydromagnetics The Boundary Integral Approach to Static and Dynamic Contact Problems

This book gathers the most recent developments in fuzzy & intelligence systems and real complex systems presented at INFUS 2020, held in Istanbul on July 21–23, 2020. The INFUS conferences are a well-established international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing, highlighting studies on fuzzy & intelligence systems and real complex systems at universities and international research institutions. Covering a range of topics, including the theory and applications of fuzzy set extensions such as intuitionistic fuzzy sets, hesitant fuzzy sets, spherical fuzzy sets, and fuzzy decision-making; machine learning; risk assessment; heuristics; and clustering, the book is a valuable resource for academics, M.Sc. and Ph.D. students, as well as managers and engineers in industry and the service sectors.

[The Boundary Integral Approach to Static and Dynamic Contact Problems](#) Springer

Noted health information expert Alan Rees organizes the best of complementary and alternative medicine (CAM) information resources in this new guide for librarians and patients. The book is divided into twelve sections beginning with an overview of CAM terminology, safety concerns, ongoing research and education, and the movement towards integrative medicine. "Best of" lists of books, magazines, newsletters, CD-ROMs, and professional publications are augmented with contact information for several hundred CAM associations and professional groups, an extensive section on the Internet as a source of CAM-related information, and reviews of 355 popular books on CAM.

[Geological Survey Bulletin](#) CRC Press

By the early twenty-first century, Americans had embraced a holistic vision of work, that one's job should be imbued with meaning and purpose, that business should serve not only stockholders but also the common good, and that, for many, should attend to the "spiritual" health of individuals and society alike. While many voices celebrate efforts to introduce "spirituality in the workplace" as a recent innovation that holds the potential to positively transform business and the American workplace, James Dennis LoRusso argues that workplace spirituality is in fact more closely aligned with neoliberal ideologies that serve the

interests of private wealth and undermine the power of working people. LoRusso traces how this new moral language of business emerged as part of the larger shift away from the post-New Deal welfare state towards today's global market-oriented social order. Building on other studies that emphasize the link between American religious conservatism and the rise of global capitalism, LoRusso shows how progressive "spirituality" remains a vital part of this story as well. Drawing on cultural history as well as case studies from New York City and San Francisco of businesses and leading advocates of workplace spirituality, this book argues that religion reveals much about work, corporate culture, and business in contemporary America.

Combinatorial Optimizations and Applications IGI Global

Refugees lie at the heart of world politics. The causes and consequences of, and responses to, human displacement are intertwined with many of the core concerns of International Relations. Yet, scholars of International Relations have generally bypassed the study of refugees, and Forced Migration Studies has generally bypassed insights from International Relations. Refugees in International Relations therefore represents an attempt to bridge the divide between these disciplines, and to place refugees within the mainstream of International Relations. Drawing together the work and ideas of a combination of the world's leading and emerging International Relations scholars, Refugees in International Relations considers what ideas from International Relations can offer our understanding of the international politics of forced migration. The insights draw from across the theoretical spectrum of International Relations from realism to critical theory to feminism, covering issues including international cooperation, security, and the international political economy. They engage with some of the most challenging political and practical questions in contemporary forced migration, including peacebuilding, post-conflict reconstruction, and statebuilding. The result is a set of highly original chapters, yielding not only new concepts of wider relevance to International Relations but also insights for academics, policy-makers, and practitioners working on forced migration in particular and humanitarianism in general.

Managing Common and Uncommon Complications of Aesthetic Breast Surgery Springer

Some Problems in Hydromagnetics The Boundary Integral Approach to Static and Dynamic Contact Problems Birkhäuser

Economic Developments In India : Monthly Update, Volume -59 Analysis, Reports, Policy Documents Springer Science & Business Media

Reliability problems arise with increasing frequency as our modern systems of telecommunications, information transmission, transportation, and distribution become more and more complex. In December 1989 at DIMACS at Rutgers University, a Workshop on Reliability of Computer and Communications Networks was held to examine the discrete mathematical methods relevant to these problems. There were nearly ninety participants, including theoretical mathematicians, computer scientists, and electrical engineers from academia and industry, as well as network practitioners, engineers, and reliability planners from leading companies involved in the use of computer and communications networks. This volume, published jointly with the Association for Computing Machinery, contains the proceedings from this Workshop. The aim of the Workshop was to identify the latest trends and important open problems, as well as to survey potential practical applications. The Workshop explored questions of computation of reliability of existing systems and of creating new designs to insure high reliability, in addition to the closely related notion of survivability. Redundancy, single stage and multistage networks, interconnected networks, and fault tolerance were also covered. The Workshop emphasized practical applications, with many invited speakers from a variety of companies which are dealing with practical network reliability problems. The success of the Workshop in fostering many new interactions among researchers and practitioners is reflected in the proceedings, which provide an exciting look at some of the major advances at the forefront of this important field of research.

Management of Sleep Disorders in Psychiatry Springer

Overview; Impact of engineering, agronomy, and water management practices on disease vectors; Strategies for vector-borne disease control; Integrated vector control strategies.

Algorithms - ESA 2007 Springer

The first edition of Preventing Hospital Infections led readers through a step-by-step description of a quality improvement intervention as it might unfold in a model hospital, pinpointing the likely obstacles and offering practical strategies for how to overcome them. This newly updated edition draws on fresh examples and modern clinical tools, with new or expanded topics spanning antimicrobial resistance and antimicrobial stewardship, RAND/UCLA appropriateness criteria for using devices, and tiered approaches to CAUTI, CLABSI, and CDI. Unlike other approaches, which focus on the technical aspects of healthcare-associated infections, this book offers a user-friendly manual for effecting real, practical change. Whether resistance comes from physicians who distrust change, nurses who want to protect their turf, or infection preventionists who are removed from the day-to-day work on wards, Preventing Hospital Infections, 2nd Edition offers an innovative and accessible approach that focuses on navigating the human element in a hospital quality improvement initiative.

Psychology and Law Oxford University Press

The Mathieu series is a functional series introduced by Émile Léonard Mathieu for the purposes of his research on the elasticity of solid bodies. Bounds for this series are needed for solving biharmonic equations in a rectangular domain. In addition to Tomovski and his coauthors, Pogany, Cerone, H. M. Srivastava, J. Choi, etc. are some of the known authors who published results concerning the Mathieu series, its generalizations and their alternating variants. Applications of these results are given in classical, harmonic and numerical analysis, analytical number theory, special functions, mathematical physics, probability, quantum field theory, quantum physics, etc. Integral representations, analytical inequalities, asymptotic expansions and behaviors of some classes of Mathieu series are presented in this book. A systematic study of probability density functions and probability distributions associated with the Mathieu series, its generalizations and Planck's distribution is also presented. The book is addressed at graduate and PhD students and researchers in mathematics and physics who are interested in special functions, inequalities and probability distributions.