

# Professor Indian Institute Of Technology Roorkee

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*Professor Indian  
Institute Of Technology  
Roorkee*

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## REYES BARTLETT

### Trading, Pricing, and Risk Management

Springer  
The volume contains 75 papers presented at International Conference on Communication and Networks (COMNET 2015) held during February 19–20, 2016 at Ahmedabad Management Association (AMA), Ahmedabad, India and organized by Computer Society of India (CSI), Ahmedabad Chapter, Division IV and Association of Computing Machinery (ACM), Ahmedabad Chapter. The book aims to provide a forum to researchers to propose theory and technology on the networks and services, share their experience in IT and telecommunications industries and to discuss future management solutions for communication systems, networks and services. It comprises of original contributions from researchers describing their original, unpublished, research contribution. The papers are mainly from 4 areas – Security, Management and Control, Protocol and Deployment, and Applications. The topics covered in the book are newly emerging algorithms, communication systems, network standards, services, and applications.

*Tackling Turbulent Flows in Engineering*  
UM Libraries

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The book covers cutting-edge methods and applications in the field of traffic control, transportation planning, road maintenance, and highway and pavement engineering. Case studies on traffic safety, pedestrian behavior, and highway maintenance and design are also presented in this book. The contents of this book are useful for researchers and practitioners working in transportation and traffic engineering.

*Sustainable Advanced Computing* Allied Publishers

Knowledge Economy: The Indian Challenge

engages with the challenge of transforming the Indian economy to a knowledge economy. Thus, it looks at change management of the economy with a focus on: • Economic trends and critical activities contributing to the desired change • Educational issues for preparing the human resources • Structural issues for developing institutional frameworks • Societal issues for ultimately benefiting stakeholders

*Knowledge Economy* CRC Press

The International Conference on Signals, Systems and Automation (ICSSA 2011) aims to spread awareness in the research and academic community regarding cutting-edge technological advancements revolutionizing the world. The main emphasis of this conference is on dissemination of information, experience, and research results on the current topics of interest through in-depth discussions and participation of researchers from all over the world. The objective is to provide a platform to scientists, research scholars, and industrialists for interacting and exchanging ideas in a number of research areas. This will facilitate communication among researchers in different fields of Electronics and Communication Engineering. The International Conference on Intelligent System and Data Processing (ICISD 2011) is organized to address various issues that will foster the creation of intelligent solutions in the future. The primary goal of the conference is to bring together worldwide leading researchers, developers, practitioners, and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities. Another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in India and abroad.

**Proceedings of the Third International Conference, OPTRONIX 2016** Build and Sustain a Career in Engineering

The world trade has decelerated in recent years amidst global slowdown and COVID-19 outbreak. In the wake of the

changing course of global trade, this book studies the key and emerging trade policies and negotiation issues faced by India in international trade and offers policy options for development. In 2019, World Trade Organization (WTO) celebrated 25 years of establishment. India, the founder-member of the WTO, has been forced to reverse the trade liberalization process by raising the customs duties on some products in recent years. Other countries have also been promoting protectionism. World Trade and India: Multilateralism, Progress and Policy Response discusses mitigating strategies that would help the Indian economy in building resilience to trade shocks and improve competitiveness of exports. The book unravels the complex interconnections between multilateralism and developing economies like India, and presents a detailed evaluation on where the nations stand today in global trade. It offers policy suggestions for a better future.

**ComNet 2016** Morgan & Claypool Publishers

This volume explores the dynamics of urbanisation in Northeast India. It discusses the impact of the process of urbanisation on the environment, infrastructure and socio-economic conditions of the region. The chapters in the book: Examine various challenges and opportunities of urbanisation, such as frontier urbanism, urban congestion, smart cities, vernacular architecture, urban water and waste management, cross-border migration and ethnicity. Draw attention to critical issues that have massively disturbed the urban landscape including deterioration of water quality, seismic activity and air pollution. Give alternatives that could present possible solutions to the problems afflicting this region. Drawing on case studies rooted in extensive fieldwork, this book will be indispensable to researchers and students of urban studies, human geography, development economics, cultural studies and South Asian studies. It will also be of interest to policy-makers, government representatives and town planners.

**World Trade and India** Springer Science

### & Business Media

Papers presented at the conference held at Indian Institute of Technology, Madras in 2007.

#### Issues and Challenges CRC Press

The ICDL Conferences are recognized as one of the most important platforms in the world where noted experts share their experiences. Many DL experts have contributed thought-provoking papers in ICDL 2016. These important papers are reviewed and conceptualized into ICDL on different areas of DL proceedings. The Proceedings have two volumes and over 700 pages.

#### Machinery Condition Monitoring Elsevier

This book of 'directions' focuses on cyber security research, education and training in India, and work in this domain within the Indian Institute of Technology Kanpur. IIT Kanpur's Computer Science and Engineering Department established an 'Interdisciplinary Center for Cyber Security and Cyber Defense of Critical Infrastructures (C3I Center)' in 2016 with funding from the Science and Engineering Research Board (SERB), and other funding agencies. The work at the center focuses on smart grid security, manufacturing and other industrial control system security; network, web and data security; cryptography, and penetration techniques. The founders are involved with various Indian government agencies including the Reserve Bank of India, National Critical Information Infrastructure Protection Center, UIDAI, CCTNS under home ministry, Ministry of IT and Electronics, and Department of Science & Technology. The center also testifies to the parliamentary standing committee on cyber security, and has been working with the National Cyber Security Coordinator's office in India. Providing glimpses of the work done at IIT Kanpur, and including perspectives from other Indian institutes where work on cyber security is starting to take shape, the book is a valuable resource for researchers and professionals, as well as educationists and policymakers.

#### Second National Conference on Management Science and Practice, March 9-11, 2007 World Scientific

The book provides a comprehensive, lucid, and clear introduction to the world of guided wave optical components and devices. Bishnu Pal has collaborated with some of the greatest minds in optics to create a truly inclusive treatise on this contemporary topic. Written by leaders in the field, this book delivers cutting-edge research and essential information for professionals, researchers, and students on emerging topics like microstructured

fibers, broadband fibers, polymer fiber components and waveguides, acousto-optic interactions in fibers, higher order mode fibers, nonlinear and parametric process in fibers, revolutionary effects of erbium doped and Raman fiber amplifiers in DWDM and CATV networks, all-fiber network branching component technology platforms like fused fiber couplers, fiber gratings, and side-polished fiber half-couplers, arrayed waveguides, optical MEMS, fiber sensing technologies including safety, civil structural health monitoring, and gyroscope applications. \* Accessible introduction to wide range of topics relating to established and emerging optical components. \* Single-source reference for graduate students in optical engineering and newcomer practitioners, focused on components. \* Extensive bibliographical information included so readers can get a broad introduction to a variety of optical components and their applications in an optical network.

#### **I.C. Engines And Combustion** CRC Press

This unique volume presents reviews of research in several important areas of applications of mathematical concepts to science and technology, for example applications of inverse problems and wavelets to real world systems. The book provides a comprehensive overview of current research of several outstanding scholars engaged in diverse fields such as complexity theory, vertex coupling in quantum graphs, mixing of substances by turbulence, network dynamics and architecture, processes with rate — independent hysteresis, numerical analysis of Hamilton Jacobi — Bellman equations, simulations of complex stochastic differential equations, optimal flow control, shape optimal flow control, shape optimization and aircraft designing, mathematics of brain, nanotechnology and DNA structure and mathematical models of environmental problems. The volume also contains contributory talks based on current researches of comparatively young researchers participating in the conference. Contents: Part A Invited Talk: In Appreciation of Dr Zakir Husain Award (M Zuhair Nashed) Kinematical Conservation Laws (KCL): Equations of Evolution of Curves and Surfaces (K R Arun and P Prasad) Systematic Discretization of Input/Output Maps and Control of Partial Differential Equations (J Heiland, V Mehrmann and M Schmidt) Vertex Couplings in Quantum Graphs: Approximations by Scaled Schrödinger Operators (P Exner) Complexity Leads to Randomness in Chaotic Systems (R Lozi) Mathematical Modeling for Unifying Different Branches of Science, Engineering

and Technology (N Rudraiah) On Equivalence Transformations and Exact Solutions of a Helmholtz Type Equation (O P Bhutani and L R Chowdhury) Cognitive Radio: State-of-the-Art and Mathematical Challenges (T Nadkar, V Thumar, A Patel, Md Z Ali Khan, U B Desai and S N Merchant) Part B Thematic Reviews: Inverse Problems of Parameter Identification in Partial Differential Equations (B Jadamba, A A Khan and M Sama) Finite Element Methods for HJB Equations (M Boulbrachene) Dynamics and Control of Underactuated Space Systems (K D Kumar and Godard) Some New Classes of Inverse Coefficient Problems in Engineering Mechanics and Computational Material Science Based on Boundary Measured Data (A Hasanov) Some Recent Developments on Mathematical Aspect of Wavelets (P Manchanda and Meenakshi) Relevance of Wavelets and Inverse Problems to Brain (A H Siddiqi, H K Sevindir, Z Aslan and C Yazici) Wavelets and Inverse Problems (K Goyal and M Mehra) Optimization Models for a Class of Structured Stochastic Games (S K Neogy, S Sinha, A K Das and A Gupta) Part C Contributory Talks: Predator-Prey Relations for Mammals where Prey Suppress Breeding (Q J Khan and M Al-Lawatia) SEI Model with Varying Transmission and Mortality Rates (G Rost) Trajectories and Stability Regions of the Lagrangian Points in the Generalized Chermnykh-Like Problem (B S Kushvah) MHD Flow Past an Infinite Plate Under the Effect of Gravity Modulation (S Wasu and S C Rajvanshi) Readership: Researchers in mathematical modeling, numerical analysis and computational mathematics. Keywords: Complexity Theory; Vertex Coupling in Quantum Graphs; Hamilton-Jacobi — Bellman Equation; Prey and Predator Model; Inverse Problems and Wavelets; Dynamics and Control of Under Actuated Space Systems *Build and Sustain a Career in Engineering* Springer This book discusses the development of useful models and their applications in soil and water engineering. It covers various modeling methods, including groundwater recharge estimation, rainfall-runoff modeling using artificial neural networks, development and application of a water balance model and a HYDRUS-2D model for cropped fields, a multi-model approach for stream flow simulation, multi-criteria analysis for construction of groundwater structures in hard rock terrains, hydrologic modeling of watersheds using remote sensing, and GIS and AGNPS. Proceedings of the International Conference on Computational Intelligence

and Sustainable Technologies Tata McGraw-Hill Education

Markov Decision Processes (MDPs) are widely popular in Artificial Intelligence for modeling sequential decision-making scenarios with probabilistic dynamics. They are the framework of choice when designing an intelligent agent that needs to act for long periods of time in an environment where its actions could have uncertain outcomes. MDPs are actively researched in two related subareas of AI, probabilistic planning and reinforcement learning. Probabilistic planning assumes known models for the agent's goals and domain dynamics, and focuses on determining how the agent should behave to achieve its objectives. On the other hand, reinforcement learning additionally learns these models based on the feedback the agent gets from the environment. This book provides a concise introduction to the use of MDPs for solving probabilistic planning problems, with an emphasis on the algorithmic perspective. It covers the whole spectrum of the field, from the basics to state-of-the-art optimal and approximation algorithms. We first describe the theoretical foundations of MDPs and the fundamental solution techniques for them. We then discuss modern optimal algorithms based on heuristic search and the use of structured representations. A major focus of the book is on the numerous approximation schemes for MDPs that have been developed in the AI literature. These include determinization-based approaches, sampling techniques, heuristic functions, dimensionality reduction, and hierarchical representations. Finally, we briefly introduce several extensions of the standard MDP classes that model and solve even more complex planning problems. Table of Contents: Introduction / MDPs / Fundamental Algorithms / Heuristic Search Algorithms / Symbolic Algorithms / Approximation Algorithms / Advanced Notes

Mathematical Methods, Models and Algorithms in Science and Technology Springer Nature

This book—an outcome of the authors' ongoing research on the complex relationships between humans and water in an urban context—presents an integrated model for assessing and forecasting the sustainability of human settlements, particularly urban communities. After introducing the conceptual and contextual dimensions of sustainability through an extensive review of the literature on the subject, the authors go on to explain their model. They

then elaborate on the methodology for its formulation, development and implementation. This model has also been used to analyse changes in the availability of water and open spaces, and variations in lifestyles, community attitudes and living conditions including sanitation practices, and waste generation and its disposal.

**Proceedings of the 6th Nirma University International Conference on Engineering (NUICONE 2017), November 23-25, 2017, Ahmedabad, India** Springer Science & Business Media

Wood as found in trees and bushes was of primary importance to ancient humans in their struggle to control their environment. Subsequent evolution through the Bronze and Iron Ages up to our present technologically advanced society has hardly diminished the importance of wood. Today, its role as a source of paper products, furniture, building materials, and fuel is still of major significance. Wood consists of a mixture of polymers, often referred to as lignocellulose. The cellulose microfibrils consist of an immensely strong, linear polymer of glucose. They are associated with smaller, more complex polymers composed of various sugars called hemicelluloses. These polysaccharides are embedded in an amorphous phenylpropane polymer, lignin, creating a remarkably strong composite structure, the lignocellulosic cell wall. Wood also contains materials that are largely extraneous to this lignocellulosic cell wall. These extracellular substances can range from less than 10% to about 35% of the dry weight of the wood, but the usual range is 2% -10%. Among these components are the mineral constituents, salts of calcium, potassium, sodium, and other metals, particularly those present in the soil where the tree is growing. Some of the extraneous components of wood are too insoluble to be extracted by inert solvents and remain to give extractive-free wood its color; very often these are high-molecular-weight polyphenolics.

**Planning with Markov Decision Processes** Springer

The proceedings entitled "Concentrated Solar Thermal Technologies: Recent Trends and Applications" includes the peer-reviewed selected papers those are presented during NCSTET 2016. The sub-topics under concentrated solar thermal technologies and applications included in the book are Solar Field; Receiver and Heat Exchanger; Coating; Thermal Energy Storage; Cooling; Process Heat; and Smart Grid and Policy Research. The domains mentioned cover topics from resource-assessment, collection to conversion of

solar energy for applications, like, heating, cooling and electricity. The proceedings also include invited lectures from domain experts. The edited work will be useful for beginners and for the advanced level researchers in the field of concentrated solar thermal technologies and their applications.

**Recent Trends and Applications** Taylor & Francis

Stochastic global optimization methods and applications to chemical, biochemical, pharmaceutical and environmental processes presents various algorithms that include the genetic algorithm, simulated annealing, differential evolution, ant colony optimization, tabu search, particle swarm optimization, artificial bee colony optimization, and cuckoo search algorithm. The design and analysis of these algorithms is studied by applying them to solve various base case and complex optimization problems concerning chemical, biochemical, pharmaceutical, and environmental engineering processes. Design and implementation of various classical and advanced optimization strategies to solve a wide variety of optimization problems makes this book beneficial to graduate students, researchers, and practicing engineers working in multiple domains. This book mainly focuses on stochastic, evolutionary, and artificial intelligence optimization algorithms with a special emphasis on their design, analysis, and implementation to solve complex optimization problems and includes a number of real applications concerning chemical, biochemical, pharmaceutical, and environmental engineering processes. Presents various classical, stochastic, evolutionary, and artificial intelligence optimization algorithms for the benefit of the audience in different domains Outlines design, analysis, and implementation of optimization strategies to solve complex optimization problems of different domains Highlights numerous real applications concerning chemical, biochemical, pharmaceutical, and environmental engineering processes

Fundamentals and Applications Allied Publishers

The emphasis of this book is on engineering aspects of fluid turbulence. The book explains for example how to tackle turbulence in industrial applications. It is useful to several disciplines, such as, mechanical, civil, chemical, aerospace engineers and also to professors, researchers, beginners, under graduates and post graduates. The following issues are emphasized in the book: - Modeling and computations of engineering flows:

The author discusses in detail the quantities of interest for engineering turbulent flows and how to select an appropriate turbulence model; Also, a treatment of the selection of appropriate boundary conditions for the CFD simulations is given. - Modeling of turbulent convective heat transfer: This is encountered in several practical situations. It basically needs discussion on issues of treatment of walls and turbulent heat fluxes. - Modeling of buoyancy driven flows, for example, smoke issuing from chimney, pollutant discharge into water bodies, etc

Derivative Markets in India Springer Science & Business Media

Each number is the catalogue of a specific school or college of the University.

**Cyber Security in India** CRC Press

The Proceedings of 3rd International Conference on Opto-Electronics and Applied Optics, OPTRONIX 2016 is an effort to promote and present the research works by scientists and researchers including students in India and abroad in the area of Green Photonics and other

related areas as well as to raise awareness about the recent trends of research and development in the area of the related fields. The book has been organized in such a way that it will be easier for the readers to go through and find out the topic of their interests. The first part includes the Keynote addresses by Rajesh Gupta, Department of Energy Science and Engineering, Indian Institute of Technology, Bombay; P.T. Ajith Kumar, President and Leading Scientist Light Logics Holography and Optics, Crescent Hill, Trivandrum, Kerala; and K.K. Ghosh, Institute of Engineering & Management, Kolkata, India. The second part focuses on the Plenary and Invited Talks given by eminent scientists namely, Vasudevan Lakshminarayanan, University of Waterloo, Canada; Motoharu Fujigaki, University of Fukui, Japan; Takeo Sasaki, Tokyo University of Science, Japan; Kehar Singh, Former Professor, Indian Institute of Technology, Delhi, India; Rajpal S. Sirohi, Tezpur University, India; Ajoy Kumar Chakraborty, Institute of Engineering & Management, India; Lakshminarayan Hazra, Emeritus Professor, Calcutta

University, India; S.K. Bhadra, Emeritus Scientist, Indian Institute of Chemical Biology, India; Partha Roy Chaudhuri, Department of Physics, Indian Institute of Technology, Kharagpur, India; Navin Nishchal, Indian Institute of Technology, Patna, India; Tarun Kumar Gangopadhyay, CSIR-Central Glass and Ceramic Research Institute, India; Samudra Roy, Department of Physics, Indian Institute of Technology, Kharagpur, India; Kamakhya Ghatak, University of Engineering & Management, India. The subsequent parts focus on contributory papers in : Green Photonics; Fibre and Integrated Optics; Lasers, Interferometry; Optical Communication and Networks; Optical and Digital Data and Image Processing; Opto-Electronic Devices, Terahertz Technology; Nano-Photonics, Bio-Photonics, Bio-Medical Optics; Lasers, Quantum Optics and Information Technology; E. M. Radiation Theory and Antenna; Cryptography; Quantum and Non-Linear Optics, Opto-Electronic Devices; Non-Linear Waveguides; Micro-Electronics and VLSI; Interdisciplinary.