

## Infrastructure Planning And Management Nptel

US Audience: Mechanical Engineers (215,000), Architects (113,000), Civil Engineers (228,000), Environmental Engineers (47,000) Numerous foreign case studies and examples for global use Utilizes SI units for international usage

This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft Hydraulics at the time), this new edition, written again with contributions from Jerry R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design, siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.

The quality of water, whether it is used for drinking, irrigation or recreational purposes, is significant for health in both developing and developed countries worldwide. This book is based on a programme of work undertaken by an international group of experts during 1999-2001. The aim was to develop a harmonised framework of effective and affordable guidelines and standards to improve the risk assessment and management of water-related microbial hazards. This book will be useful to all those concerned with issues relating to microbial water quality and health, including environmental and public health scientists, water scientists, policy makers and those responsible for developing standards and regulations.

Urban areas are integral to India's growth and development, accounting for around two-thirds of the country's GDP. Analysing India's rapidly expanding process of urbanisation, the book identifies the key challenges and opportunities and proposes suitable managerial and policy reforms. It addresses critical issues and puts forth suggestions for better planning financing alternatives and, most importantly, better governance for improved service delivery and affordable housing. Divided thematically into three sections, the volume takes into account the important facets of urbanisation, including the state of urban infrastructure and planning in India with due attention to sustainability, the role of finance in urban development and its dependence on governance, and methods to generate good governance in public institutions, and the impact on housing and climate change. The 11 essays included in this book have been written by leading analysts and practitioners, who propose critical reforms and policy interventions. The volume will be indispensable to students and scholars of urban economics, development studies, urban planning, business practitioners, policymakers as well as the informed general reader.

Currently, spatial analysis is becoming more important than ever because enormous volumes of spatial data are available from different sources, such as GPS, Remote Sensing, and others. This book deals with spatial analysis and modelling. It provides a comprehensive discussion of spatial analysis, methods, and approaches related to human settlements and associated environment. Key contributions with empirical case studies from Iran, Philippines, Vietnam, Thailand, Nepal, and Japan that apply spatial analysis including autocorrelation, fuzzy, voronoi, cellular automata, analytic hierarchy process, artificial neural network, spatial metrics, spatial statistics, regression, and remote sensing mapping techniques are compiled comprehensively. The core value of this book is a wide variety of results with state of the art discussion including empirical case studies. It provides a milestone reference to students, researchers, planners, and other practitioners dealing the spatial problems on urban and regional issues. We are pleased to announce that this book has been presented with the 2011 publishing award from the GIS Association of Japan. We would like to congratulate the authors!

Over the last two decades, several textbooks, research papers, and best practice cases have been published on supply chain management. However, globalization has created dispersed supply chains which are vulnerable and dependent on entities and factors that are exogenous to the supply chain. Resource scarcity, environmental regulations, government policies, political unrest, economic instability, and natural disasters are a few examples of how non-supply chain factors influence the way supply chains are managed. These exogenous factors are not just risk sources but can also be venues for innovation and growth. This book presents the notion of supply chain ecosystem to holistically model all the factors that interact with the supply chain and influence the flow of goods, information, and finance. Through a number of real-life case studies, the authors use the ecosystem framework to study the governance, risk, innovation, and performance issues in supply chain management, and also to redesign the management techniques for global supply chains. In doing so, this book makes a unique contribution to the theory and practice of supply chain networks. Contents: Ecosystem Framework: Introduction The Supply Chain Ecosystem Framework Performance Analysis Supply Chain Risk Innovation Governance, Coordination, and Control Global Supply Chain Redesign Applications: Location Analysis Green Supply Chains Smart Villages and Cities Epilogue Readership: Academics, researchers, and undergraduate and graduate students in courses on supply chain engineering and operations management; managers wishing to gain insights into global supply chain network issues. Keywords: Global Supply Chains; Supply Chain Ecosystem; Innovation; Supply Chain Risk; Governance Key Features: Presents a new framework — the Supply Chain Ecosystem — for redesign of global supply chain networks with emphasis on governance, risk, innovation, and performance, thereby filling a gap in the literature Illustrates the generality and practicality of the ecosystem framework through various applications, e.g., location analysis, green supply chain design, and smart villages and cities Both authors are well-respected academics, with high industry orientation. Their experience and insights into the logistics and supply chain fields in the Asia-Pacific region are reflected in the book

A rare piece of research on the game of urban services delivery in an Indian metropolis. Assorted City makes an important contribution to urban planning discourses in India by offering an in-depth conceptual and theoretical insight to address theory–practice dichotomy. A unique work on urban services delivery in an Indian city, it narrates how equity and justice are manipulated in the process. It captures generic urban processes in three ways: the questions it raises about planning, the multifaceted methodological perspective it introduces, and the commitment it underlines toward social justice and equity in a democracy. This book explores and exposes the interplay between urban existence and the politics of service delivery.

The twenty-first century will witness a rapid urban expansion in the developing world. India, it is believed, will be at the forefront of such a phenomenon. This book acknowledges the role of agglomeration externalities as the cornerstone of urban public policy in

India. Arguing that hypotheses of over-urbanization and urban bias theory—which articulated a negative view of urbanization—are based on fragile theoretical as well as empirical foundations, this book calls for proactive public policy to harness planned urbanization as resource. India requires agglomeration-augmenting, congestion-mitigating, and resource-generating cities as engines of economic growth, including rural development. The book provides a large number of practical examples from India and abroad to enable policy-makers undertake reforms in urban and regional planning, financing, and governance to meet the challenges of urbanization in India. It combines theory and practice to draw lessons for an urban agenda for India and recognizes the central role of cities in catalysing growth and generating public finance for economic development.

The first book on the subject written by a practitioner for practitioners. Geotechnical Instrumentation for Monitoring Field Performance goes far beyond a mere summary of the technical literature and manufacturers' brochures: it guides readers through the entire geotechnical instrumentation process, showing them when to monitor safety and performance, and how to do it well. This comprehensive guide: \* Describes the critical steps of planning monitoring programs using geotechnical instrumentation, including what benefits can be achieved and how construction specifications should be written \* Describes and evaluates monitoring methods and recommends instruments for monitoring groundwater pressure, deformations, total stress in soil, stress change in rock, temperature, and load and strain in structural members \* Offers detailed practical guidelines on instrument calibrations, installation and maintenance, and on the collection, processing, and interpretation of instrumentation data \* Describes the role of geotechnical instrumentation during the construction and operation phases of civil engineering projects, including braced excavations, embankments on soft ground, embankment dams, excavated and natural slopes, underground excavations, driving piles, and drilled shafts \* Provides guidelines throughout the book on the best practices

Based on the authors' combined experience of seventy years working on projects around the globe, Construction Equipment Management for Engineers, Estimators, and Owners contains hands-on, how-to information that you can put to immediate use. Taking an approach that combines analytical and practical results, this is a valuable reference for a wide range of individuals and organizations within the architecture, engineering, and construction industry. The authors delineate the evolution of construction equipment, setting the stage for specific, up-to-date information on the state-of-the-art in the field. They cover estimating equipment ownership, operating cost, and how to determine economic life and replacement policy as well as how to schedule a production-driven, equipment-intensive project that achieves target production rates and meets target equipment-related unit costs and profits. The book includes a matrix for the selection of equipment and identifies common pitfalls of project equipment selection and how to avoid them. It describes how to develop an OSHA job safety analysis for an equipment-intensive project, making this sometimes onerous but always essential task easier. The authors' diverse and broad experience makes this a book that ranges from the rigorous mathematical analysis of equipment operations to the pragmatic discussion of the equipment maintenance programs needed to guarantee that the production predicted in a cost estimate occurs.

This book gives an overview of various aspects of climate change by integrating global climate models, downscaling approaches, and hydrological models. It also covers themes that help in understanding climate change in a holistic manner. The book includes worked-out examples, revision questions, exercise problems, and case studies, making it relevant for use as a textbook in graduate courses and professional development programs. The book will serve well researchers, students, as well as professionals working in the area of hydroclimatology.

International experts discuss how to restore degraded ecosystems and bring water resources to a level at which they can be sustained naturally. Examines the relationships between the various water-related activities of man and formulates acceptable tactics for the integrated development of river basins.

This handbook serves as a guide to deploying battery energy storage technologies, specifically for distributed energy resources and flexibility resources. Battery energy storage technology is the most promising, rapidly developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid.

Poverty and governance are both issues high on the agenda of international agencies and governments in the South. With urban areas accounting for a steadily growing share of the world's poor people, an international team of researchers focused their attention on the hitherto little-studied relationship between urban governance and urban poverty. In their timely and in-depth examination of ten cities in Africa, Asia and Latin America, they demonstrate that in many countries the global trends towards decentralization and democratization offer new opportunities for the poor to have an influence on the decisions that affect them. They also show how that influence depends on the nature of those democratic arrangements and decision-making processes at the local level, as well as on the ability of the poor to organize. The study involved interviews with key actors within and outside city governments, discussions with poverty groups, community organizations and non-governmental organizations (NGOs), as well as analyses of data on poverty, services and finance. This book presents insights, conclusions and practical examples that are of relevance for other cities. It outlines policy implications for national and local governments, NGOs and donor agencies, and highlights ways in which poor people can use their voice to influence the various institutions of city governance.

"Perspectives on ITS" is a collection of the Intelligent Transportation Systems (ITS) writings of Professor Joseph M. Sussman from MIT. Professor Sussman is a long-time major participant in the ITS world, beginning with his work on the core writing team in the original "IVHS" Strategic Plan in 1991-92, and continuing on to the present day. He has worked in a number of ITS area and is a keen observer of the ITS scene in general. The book contains extended articles on various aspects of ITS and perspectives on the future of the field, building on its rich history; organizational issues related to ITS – in particular, regionalism and the transportation / information infrastructure; and ITS' implications for the transportation profession at large and for transportation education. In addition it contains 14 selected columns from the ITS Quarterly.

Fully updated for Windows Server 2012 R2! Prepare for Microsoft Exam 70-410 - and help demonstrate your real-world mastery of implementing and configuring core services in Windows Server 2012 R2. Designed for experienced IT professionals ready to advance their status, Exam Ref focuses on the critical thinking and decision making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Install and configure servers Configure server roles and features Configure Hyper-V Deploy and configure core network services Install and administer Active Directory Create and manage Group Policy This Microsoft Exam Ref: Organizes its coverage by exam objectives. Features strategic, what-if scenarios to challenge you.

Primarily intended for senior undergraduate and postgraduate students of civil, mechanical and aerospace/aeronautical engineering, this text emphasises the importance of reliability in engineering computations and understanding the process of computer aided engineering. Written with a view to promote the correct use of finite element technology and to present a detailed study of a set of essential computational tools for the practice of structural dynamics, this book is a ready-reckoner for an in-depth discussion of finite element theory and estimation and control of errors in computations. It is specifically aimed at the audience with interest in vibrations and stress analysis. Several worked out examples and exercise problems have been included to describe the various aspects of finite element theory and modelling. The exercise on error analysis will be extremely helpful in grasping the essence of posteriori error analysis and mesh refinement. KEY FEATURES •

Thorough discussion of numerical algorithms for reliable and efficient computation. • Ready-to-use finite element system and other scientific



applications. • Tips for improving the quality of finite element solutions. • Companion DVD containing ready to use finite element applications. AUDIENCE: Senior Undergraduate and Postgraduate students of Civil, Mechanical and Aerospace/Aeronautical engineering Interdisciplinary introduction to transportation engineering serving as a comprehensive text as well as a frequently cited reference for a course in transportation engineering in the Civil Engineering Department.

With the emphasis on market-led development initiatives, sustainable urbanization is a challenge, especially in growing nations. Regional administrative efforts are crucial for cities to meet the planned city operations and specific targets and objectives. The Handbook of Research on Urban Governance and Management in the Developing World is a research publication that explores contemporary issues in regional political and administrative practices and key challenges in implementing these strategies in growing nations. Featuring coverage on a wide range of topics such as urban and regional economics, supply chain management, and environmental concerns, this book is geared toward city development planners, policy makers, researchers, academics, and students seeking current and relevant research on the regional bureaucracy and its practices and how they affect growing nations.

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

With flair and an originality of approach, Crundwell brings his considerable experience to bear on this crucial topic. Uniquely, this book discusses the technical and financial aspects of decision-making in engineering and demonstrates these through case studies. It's a hugely important matter as, of course, engineering solutions and financial decisions are intimately tied together. The best engineers combine the technical and financial cases in determining new solutions to opportunities, challenges and problems. To get your project approved, no matter the size of it, the financial case must be clear and compelling. This book provides a framework for engineers and scientists to undertake financial evaluations and assessments of engineering or production projects.

Due to market forces and technological evolution, Big Data computing is developing at an increasing rate. A wide variety of novel approaches and tools have emerged to tackle the challenges of Big Data, creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis. Presenting a mix of industry cases and theory, Big Data Computing discusses the technical and practical issues related to Big Data in intelligent information management. Emphasizing the adoption and diffusion of Big Data tools and technologies in industry, the book introduces a broad range of Big Data concepts, tools, and techniques. It covers a wide range of research, and provides comparisons between state-of-the-art approaches. Comprised of five sections, the book focuses on: What Big Data is and why it is important Semantic technologies Tools and methods Business and economic perspectives Big Data applications across industries

This book provides a conceptual framework for systemic flexibility and business agility, drawing on a basis of research/case applications in various types of flexibility and agility in business. The selected papers address a variety of issues concerning the theme of systemic flexibility and business agility and are organized into following five parts: (i) Systemic and Strategic Flexibility; (ii) Information and Business Agility; (iii) Flexibility, Innovation and Business Excellence; (iv) Flexibility in Value and Supply Chains; and(v) Financial Flexibility and Mergers & Acquisitions. Flexibility and agility in business are emerging as key dimensions of business excellence that encompass the requirements of both choice and speed. The two concepts, flexibility and agility, have been used in multiple ways and often interchangeably, both in literature and in practice. The growing need for flexibility/agility in business can be seen from reactive as well as proactive perspectives. A business enterprise is expected to possess reactive flexibility/ agility (as adaptability and responsiveness) in order to cope with the changing and uncertain business environment. It may also endeavor to intentionally generate flexibility/agility as a strategic change in a variety of ways, such as leadership change, reengineering, innovation in products and processes, use of information and communication technology, and learning orientation.

During recent years, techniques and legislation for decentralized storm-water management have advanced all over the world. However, decentralized storm-water management systems are still under-utilized and acceptance among citizens and professionals is still lacking. Yet management of this issue will be essential for the sustainable development of cities in the future. Thus acceptance of the systems must be improved. The main question that needs to be answered is how can sustainable storm-water management be integrated with urban design in order to create safe, liveable, sustainable, and attractive cities? This manual, developed by the Hafen City University of Hamburg, provides an overview of a Water Sensitive Urban Design approach and creates principles for a successful strategy focused on the topics: Water Sensitivity, Aesthetics, Functionality, Usability, Public Perception and Acceptance, as well as Integrative Planning. It furthermore presents an international selection of case studies ranging from small scale (site level) up to large scale (city level), demonstrating the WSUD principles in the context of the temperate climates.

?Construction Project Management provides a thorough understanding of construction project management techniques with the help of various concepts, practical insight, real-life examples and skills to execute large and small projects.

Broadly, this comprehensive book is organized in 5 parts: ? Introducing Construction Project Management ? Developing Project Construction Time Schedule ? Developing Project Resources Plans ? Planning and Budgeting Construction Costs ? Controlling Project Construction Plan Focusing on project planning, scheduling and controlling techniques, the 3rd Edition covers the practical application of the knowledge and skills required to plan and control construction project scope, time, resources, cost, risk and integration using project management technique.

Infrastructure Planning HandbookPlanning, Engineering, and EconomicsMcGraw Hill Professional

The book brings together high-quality research articles on advanced hydrological analysis, advanced computational methods, and the ecological and sociological aspects of urban watershed management under one umbrella. The rapid pace of urbanization, not accompanied by any farsighted, holistic plan, has reduced many cities in the developing world into multi-hazard areas. The most perceptible consequence of urbanization is the change in land-use and land cover, which in turn impacts hydrological systems. Accordingly, scientific studies on urban hydrology with due emphasis on ecological and sociological aspects under changing climate are vital to the appropriate design of urban landscapes and civil infrastructure works. This book addresses precisely these issues, offering a useful guide for environmentalists, hydrologists, and a broad range of socio-economic scientists exploring the environmental vulnerabilities arising from

urbanization.

Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is supposed to know. The major principles of project management have been derived through real life case studies from the field. Simplified examples have been used to facilitate better understanding of the concepts before going into the large and complex problems. The book features computer applications (Primavera and MS Project) used to explain planning, scheduling, resource leveling, monitoring and reporting; it is highly illustrated with line dia.

The book familiarizes readers with fundamental concepts and issues related to computer vision and major approaches that address them. The focus of the book is on image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and feature selection for pattern classification/recognition, and advanced concepts like object classification, object tracking, image-based rendering, and image registration. Intended to be a companion to a typical teaching course on computer vision, the book takes a problem-solving approach.

The book contains a selection of papers on urban governance in its multiple perspectives. It has evolved from the presentations made at the Third International Conference on Public Policy and Management held in 2008. The topics are grouped into several themes: Urban Plan and Governance, Urban Governance through Partnership and Participation, and Financing Urban Infrastructure. With several examples from developing nations, the book dwells into the practical and managerial aspects of urban planning, partnerships, participation, financial mobilization and effective governance. One of the highlights of the book is that it looks at financial mobilization as a strategy for governance and how the financial system in itself can be an instrument of governance.

An accessible guide to the ideas and technologies underlying such applications as GPS, Google Maps, Pokémon Go, ride-sharing, driverless cars, and drone surveillance. Billions of people around the globe use various applications of spatial computing daily—by using a ride-sharing app, GPS, the e911 system, social media check-ins, even Pokémon Go. Scientists and researchers use spatial computing to track diseases, map the bottom of the oceans, chart the behavior of endangered species, and create election maps in real time. Drones and driverless cars use a variety of spatial computing technologies. Spatial computing works by understanding the physical world, knowing and communicating our relation to places in that world, and navigating through those places. It has changed our lives and infrastructures profoundly, marking a significant shift in how we make our way in the world. This volume in the MIT Essential Knowledge series explains the technologies and ideas behind spatial computing. The book offers accessible descriptions of GPS and location-based services, including the use of Wi-Fi, Bluetooth, and RFID for position determination out of satellite range; remote sensing, which uses satellite and aerial platforms to monitor such varied phenomena as global food production, the effects of climate change, and subsurface natural resources on other planets; geographic information systems (GIS), which store, analyze, and visualize spatial data; spatial databases, which store multiple forms of spatial data; and spatial statistics and spatial data science, used to analyze location-related data.

Developing Countries Have Different Transportation Issues and Requirements Than Developed Countries An efficient transportation system is critical for a country's development. Yet cities in developing countries are typically characterized by high-density urban areas and poor public transport, as well as lack of proper roads, parking facilities, road user discipline, and control of land use, resulting in pollution, congestion, accidents, and a host of other transportation problems. Public Transport Planning and Management in Developing Countries examines the status of urban transport in India and other developing countries. It explains the principles of public transport planning and management that are relevant and suitable for developing countries, addresses current transportation system inefficiencies, explores the relationship between mobility and accessibility, and analyzes the results for future use. Considers Socioeconomic and Demographic Characteristics It's projected that by 2030, developing nations will have more vehicles than developed nations, and automated guided transit (AGT) and other transport systems will soon be available in India. This text compares five cities using specific indicators—urbanization, population growth, vehicle ownership, and usage. It determines demographic and economic changes in India, and examines how these changes have impacted transportation demand and supply, transport policy and regulations, and aspects of economics and finance related to public transport. The authors emphasize preserving and improving existing modes, efficient use of the public transport management infrastructure, implementing proper planning measures, and encouraging a shift towards sustainable modes. They also discuss sustainability in terms of environment, energy, economic, and land use perspectives and consider the trends of motorization, vehicle growth, modal share, effects on mobility and environment, and transport energy consumption and emissions. Public Transport Planning and Management in Developing Countries addresses the growing resource needs and economics of public transport in developing countries, explains various aspects of public transport planning and management, and provides readers with a basic understanding of both urban and rural public transport planning and management in developing countries.

Throughout the world, traffic levels are increasing and, in urban areas, these increasing levels have led to pressures on the road networks which are causing serious economic, environmental and social problems. This book examines the full range of 'push and pull' Travel Demand Management measures. This covers areas of regulatory, pricing, planning and persuasive policies to encourage individuals to make their trips in off-peak periods, by a different mode or to find another way of carrying out the trip purpose. Applying such measures can result in a more efficient transport system, improved environmental conditions and improvements in safety as well as revenue generation for use on alternative transport systems. The editors conclude with a summary of findings within the book and suggestions for best future practice. This book is a collection of articles covering the six lecture courses given at the CISM School on this topic in 2008. It



features contributions by established international experts and offers a coherent and comprehensive overview of the state-of-the art research in the field, thus addressing both postgraduate students and researchers in aerospace, mechanical and civil engineering.

Floods and Flood Control is one of a series of special technical reports covering important phases of the work of TVA's Office of Engineering. The principle concern of the report is the technical engineering aspects of floods and flood control of the Tennessee River Basin and the effect of this control downstream on the lower Ohio and Mississippi Rivers. Focuses on actual, state-of-the-art design/construction procedures as opposed to a discussion of solid waste management issues and to general descriptions and/or conceptual designs. Provides an integrated package of analytical tools, design equations, and step-by-step construction procedures for all elements of a landfill, giving the reader a better sense of the necessary site investigation, planning, analysis, and organization that go into a landfill design and construction project. The characteristics of landfill containment envelopes and their design/construction are treated in detail. Physico-chemical and engineering properties of solid waste that are relevant and important to landfill design and construction are tabulated and described. Includes explanation of how to evaluate and assess potential problems that affect landfill performance such as sideslope stability, settlement, containment effectiveness, and erosion control. Discusses vertical landfill expansion; how leachate moves across a liner or barrier under both advection and diffusion; compares the containment effectiveness of different liner systems to the combined advective-diffusive transport of dissolved leachate solutes. Includes a detailed explanation with numerical examples and calculations of how to design a gas collection and piping system in a landfill—including the collection and handling of condensate in the gas. Detailed installation and inspection guidelines are provided for both earthen and geosynthetic liner/cover systems—comparing the relative advantages and limitations of each. For professional training courses in Geotechnical and Geoenvironmental Engineering.

The revised and updated Fifth Edition gives an in-depth and incisive analysis of the basic principles of strategic management. The exposition of these principles is reinforced by seven case studies that encompass the broad spectrum of Indian companies. These case studies are culled mainly from manufacturing and information technology, and include both private and public sector units. The case studies will be of immense help to the budding managers as well as provide them with the requisite practical orientation for understanding the strategic management issues. The inclusion of the concepts, theory and case studies in a single, compact volume is the main feature of the book, which makes the subject easier to understand and learn. Intended primarily as a textbook for postgraduate students of management and commerce, this book is of immense help to all those attending management development and executive development programmes. New to This Edition • A brief section on 'Government Initiatives' is added in Chapter 4. • Section on 'CSR activities mandated by the Government of India', have been incorporated in Chapter 5. • A new case study on Indian Airline has been introduced. • All case studies of the previous edition have been updated with latest company information and development.

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