

Infrastructure Planning And Management Nptel

The emergence of open access, web technology, and e-publishing has slowly transformed modern libraries into digital libraries. With this variety of technologies utilized, cloud computing and virtual technology has become an advantage for libraries to provide a single efficient system that saves money and time. Cloud Computing and Virtualization Technologies in Libraries highlights the concerns and limitations that need addressed in order to optimize the benefits of cloud computing to the virtualization of libraries. Focusing on the latest innovations and technological advancements, this book is essential for professionals, students, and researchers interested in cloud library management and development in different types of information environments.

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 Conference Theme was: "Moving Africa forward through Engineering, Technology and Innovation". The conference brought together academics, researchers and industrialists from many disciplines, in particular those that have the most impact on Africa's Development. Most conferences on the continent have covered limited disciplines and therefore the

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opportunity has been lost sharing information, results and knowledge in a way which can solve the many contentious issues, most of which can be solved through a multidisciplinary approach.

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.

Planning, Engineering, and Economics

Geotechnical Instrumentation for Monitoring Field Performance

Select Proceedings of CPIE 2018

Flood Handbook

Cities and Public Policy

eBusiness & eCommerce

History, Themes, and Challenges

Due to changes in the learning and

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research environment, changes in the behavior of library users, and unique global disruptions such as the COVID-19 pandemic, libraries have had to adapt and evolve to remain up-to-date and responsive to their users. Thus, libraries are adding new, digital resources and services while maintaining most of the old, traditional resources and services. New areas of research and inquiry in the field of library and information science explore the applications of machine learning, artificial intelligence, and other technologies to better serve and expand the library community. The Handbook of Research on Knowledge and Organization Systems in Library and Information Science examines new technologies and systems and their application and adoption within libraries. This handbook provides a global perspective on current and future trends concerning library and information science. Covering topics such as machine learning, library management, ICTs, blockchain technology, social media, and augmented reality, this book is essential for librarians, library directors, library technicians, media specialists, data specialists, catalogers, information resource officers, administrators, IT consultants and specialists, academicians,

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and students.

There has been roughly 15 years of research into approaches for aligning research in Human Computer Interaction with computer Security, more colloquially known as `usable security.' Although usability and security were once thought to be inherently antagonistic, today there is wide consensus that systems that are not usable will inevitably suffer security failures when they are deployed into the real world. Only by simultaneously addressing both usability and security concerns will we be able to build systems that are truly secure. This book presents the historical context of the work to date on usable security and privacy, creates a taxonomy for organizing that work, outlines current research objectives, presents lessons learned, and makes suggestions for future research.

This is the revised and enlarged second edition of the world's first comprehensive guidebook of construction management written by a single author, covering all aspects of general management practices with their nuances to engineering project's constructi

Urban areas are integral to India's growth and development, accounting for around two-thirds of the country's GDP. Analysing

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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.

Cloud Computing

Handbook of Research on Knowledge and Organization Systems in Library and

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Information Science

Construction Methods & Equipment

Fundamentals and Applications

Infrastructure Planning and Management in India

Theory and Practice

Literacy & Education

The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial

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developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Open-source development has been around for decades, with software developers co-creating tools and information systems for widespread use. With the development of open-source software such as learning objects, interactive articles, and educational games, the open-source values and practices have slowly been adopted by those in education sectors. Open-Source Technologies for Maximizing the Creation, Deployment, and Use of Digital Resources and Information highlights the global importance of open-source technologies in higher and general education. Written for those working in education and professional training, this collection of research

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explores a variety of issues related to open-source in education, such as its practical underpinnings, requisite cultural competence in global open-source, strategies for employing open-source in online learning and research, the design of an open-source networking laboratory, and other endeavors. It aims to enhance workplace practices in harnessing open-source resources in a time of budgetary frugality.

Floods are difficult to prevent but can be managed in order to reduce their environmental, social, cultural, and economic impacts. Flooding poses a serious threat to life and property, and therefore it's very important that flood risks be taken into account during any planning process. This handbook presents different aspects of flooding in the context of a changing climate and across various geographical locations. Written by experts from around the world, it examines flooding in various climates and landscapes, taking into account environmental, ecological, hydrological, and geomorphic factors, and considers urban, agriculture, rangeland, forest,

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coastal, and desert areas. Features Presents the main principles and applications of the science of floods, including engineering and technology, natural science, as well as sociological implications. Examines flooding in various climates and diverse landscapes, taking into account environmental, ecological, hydrological, and geomorphic factors. Considers floods in urban, agriculture, rangeland, forest, coastal, and desert areas Covers flood control structures as well as preparedness and response methods. Written in a global context, by contributors from around the world. The India Infrastructure Report 2007 has rural infrastructure as its theme. It provides the broad context, highlights key issues, and focuses on major sub-sectors such as power, water, sewage, and irrigation in rural infrastructure.

Urban Transportation Networks
Handbook of Construction Management
Handbook on Battery Energy Storage System
Transportation Engineering and Planning
Urban Ecology

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Adaptation for Sustainable Development Managing the Digital Value Chain

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

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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.

This book comprises select proceedings of the International Conference on Production and Industrial Engineering (CPIE) 2018.

The book focuses on the latest developments in the domain of operations management and systems engineering, and presents analytical models, case studies, and simulation approaches relevant to a wide variety of systems engineering problems. Topics such as decision sciences, human factors and ergonomics, transport and supply chain management, manufacturing design, operations research, waste management, modeling and simulation, reliability and maintenance, and sustainability in operations and manufacturing are discussed in this book. The contents of this book will be useful to academics, researchers and practitioners working in the field of systems engineering and operations management.

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Today, as globalisation becomes the norm and the need for development and progress ever more pressing, education and literacy have become crucial, more than ever before. However, even as developed nations continue to seek new alternatives to constantly improve their educational processes and objectives, developing nations have yet to tackle the problem of illiteracy. This book in the literacy and education provide a discourse on the need for literacy for every human being, with particular reference to developing nations. The emphasis is on delineating the interdependent relationship between literacy and education, stress also being laid on the need for literacy to settle in as the base for education. It also makes an effort to delvelop deep into globally changing socio-economic-political changes and ambitions, and the changing perspectives a literacy which has emerged as a result of these changes. The book deals in details about various developments that have taken place and also highlights future plans. The author hope students of social sciences and general studies would find the book of great value to them.

Infrastructure Planning Handbook Planning, Engineering, and Economics McGraw Hill

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Professional

Urbanisation in India

Evaluation and Funding of Capital Projects

Designing Secure Systems that People Can Use

Introduction to Industrial Internet of Things and Industry 4.0

Challenges and Strategies

Disaster Resilience and Sustainability

India's Urban Confusion

Disasters undermine societal well-being, causing loss of lives and damage to social and economic infrastructures. Disaster resilience is central to achieving the 2030 Sustainable Development Goals, especially in regions where extreme inequality combines with the increasing frequency and intensity of natural disasters. Disaster risk reduction and resilience requires participation of wide array of stakeholders ranging from academicians to policy makers to disaster managers. Disaster Resilient Cities: Adaptation for Sustainable Development offers evidence-based, problem-solving techniques from social, natural, engineering and other disciplinary perspectives. It connects data, research, conceptual work with practical cases on disaster risk management, capturing the multi-sectoral aspects of disaster resilience, adaptation strategy and sustainability. The book links disaster risk management with sustainable development under a common umbrella, showing that effective disaster resilience strategies and practices lead to achieving broader sustainable development goals. Provides foundational knowledge on integrated disaster risk reduction and management to show how resilience and its associated concept such as adaptive and

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transformative strategies can foster sustainable development Brings together disaster risk reduction and resilience scientists, policy-makers and practitioners from different disciplines Case studies on disaster risk management from natural science, social science, engineering and other relevant disciplinary perspectives 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.

This textbook focuses on the members of the digital value chain of eBusiness and eCommerce and dedicates a separate chapter to each member part: eProducts & eServices, eProcurement, eMarketing, eContracting, eDistribution, ePayment, as well as eCustomer Relationship Management. In addition to business models and business webs, digital procurement and marketing processes are likewise addressed such as electronic negotiation processes, security questions with digital signatures, as well as electronic supplier relationship management and customer relationship management. The topics are described based on explicit procedures and descriptive examples of application. The gradual set-up of an electronic Webshop for DVD's serves as a continuous case study. The book is directed towards students of economics at universities and technical colleges; it is also suitable for executives,

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project leaders, and company experts who deal with the digital value chain.

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.

Operations Management and Systems Engineering

Computer Vision and Image Processing

An Urban Agenda for India

Annual Plan

Construction Project Management

EAI International Conference for Research, Innovation and Development for Africa

Irrigation and Water Resources Engineering

Negotiation-whether hammering out a great job offer, settling a dispute with a client, drafting a contract, or making trade-offs between business units-is both a necessary and challenging aspect of business life. In the business world, confident negotiators are always in high demand. Bringing a difficult negotiation to a successful conclusion can be one of the most

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exhilarating-and valuable-aspects of business today. Packed with practical advice and handy tools, Negotiation will help any manager sharpen skills and yield a sizable payoff. Contents include: Preparing the necessary information before a negotiation Managing multiparty negotiations Assessing the position of the opposing side Determining your sources of power and authority in a negotiation Recognizing the barriers to agreement and how to overcome them Plus, readers can access free interactive tools on the Harvard Business Essentials companion web site. Series Adviser: Michael Watkins Associate Professor Michael Watkins does research on negotiation and leadership. He is the coauthor of *Right From the Start: Taking Charge in a New Leadership Role* (HBS Press, 1999) and the author of *Taking Charge in Your New Leadership Role: A Workbook* (HBS Publishing, 2001), both of which examine how new leaders coming into senior management positions should spend their first six months on the job. Harvard Business Essentials The Reliable Source for Busy Managers The Harvard Business Essentials series is designed to provide comprehensive advice, personal coaching, background information, and guidance on the most relevant topics in business. Drawing on rich content from Harvard Business School Publishing and other sources, these concise guides are carefully crafted to provide a highly practical resource for readers with

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all levels of experience. To assure quality and accuracy, each volume is closely reviewed by a specialized content adviser from a world class business school. Whether you are a new manager interested in expanding your skills or an experienced executive looking for a personal resource, these solution-oriented books offer reliable answers at your fingertips.

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 reader 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

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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 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.

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc. The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On

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Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17. The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

Rural Infrastructure

Cloud Computing and Virtualization Technologies in Libraries

Infrastructure Planning Handbook

Concepts, Methodologies, Tools, and Applications

Urban Goods Movement

Urban Governance Voice and Poverty in the

Developing World

Human factors and usability issues have traditionally played a limited role in security research and secure systems development. Security experts have largely ignored usability issues--both because they often failed to recognize the importance of human factors and because they lacked the expertise to address them. But there is a growing recognition that today's security problems can be solved only by addressing issues of usability and human factors. Increasingly, well-publicized security breaches are attributed to human errors that might have been prevented through more usable software. Indeed, the world's future cyber-security depends upon the deployment of security technology that can be broadly used by untrained computer users. Still, many people believe there is an inherent tradeoff between computer security and usability. It's true that a computer without passwords is usable, but not very secure. A computer that makes you authenticate every five minutes with a password and a fresh drop of blood might be very secure, but nobody would use it. Clearly, people need computers, and if they can't use one that's secure, they'll use one that isn't. Unfortunately, unsecured systems aren't usable for long, either. They get hacked, compromised, and otherwise rendered useless. There is increasing agreement that we need to design secure systems that people can actually use, but less agreement about how to reach this goal. Security & Usability is the first book-length work

describing the current state of the art in this emerging field. Edited by security experts Dr. Lorrie Faith Cranor and Dr. Simson Garfinkel, and authored by cutting-edge security and human-computerinteraction (HCI) researchers world-wide, this volume is expected to become both a classic reference and an inspiration for future research. Security & Usability groups 34 essays into six parts: Realigning Usability and Security---with careful attention to user-centered design principles, security and usability can be synergistic. Authentication Mechanisms-- techniques for identifying and authenticating computer users. Secure Systems--how system software can deliver or destroy a secure user experience. Privacy and Anonymity Systems--methods for allowing people to control the release of personal information. Commercializing Usability: The Vendor Perspective--specific experiences of security and software vendors (e.g.,IBM, Microsoft, Lotus, Firefox, and Zone Labs) in addressing usability. The Classics--groundbreaking papers that sparked the field of security and usability. This book is expected to start an avalanche of discussion, new ideas, and further advances in this important field.

Urban Ecology covers the latest theoretical and applied concepts in urban ecological research. This book covers the key environmental issues of urban ecosystems as well as the human-centric issues, particularly those of governance, economics, sociology and human health. The goal of Urban Ecology is to challenge readers'

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thinking around urban ecology from a resource-based approach to a holistic and applied field for sustainable development. There are seven major themes of the book: emerging urban concepts and urbanization, land use/land cover change, urban social-ecological systems, urban environment, urban material balance, smart, healthy and sustainable cities and sustainable urban design. Within each section, key concepts such as monitoring the urbanization phenomena, land use cover, urban soil fluxes, urban metabolism, pollution and human health and sustainable cities are covered. Urban Ecology serves as a comprehensive and advanced book for students, researchers, practitioners and policymakers in urban ecology and urban environmental research, planning and practice. Includes global case studies from over 14 countries, providing a first-hand account of recent applications Covers the phenomena of sustainable transport, nutrient recovery and human health, among many others Examines environmental issues as well as social-ecological systems and governance

As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and

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software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

With the number of cities and towns going up to about 8,000 now, both the JnNURM and the 12th Five year Plan document focusing on India's urban rejuvenation, and with the current focus on developing 100 smart cities, total sanitation for all houses by 2019, at least 500 habitations to be provided the basics and a new Mission on Low Cost Affordable Housing, there is a considerable interest among a cross section of society on understanding the complexities of urban India and the way forward. The book discusses these complexities and explains the possible strategies for their solution.

Prominent urban thinkers of India have come together to discuss key urban issues of India in this book. The book includes chapters on urban planning, water, solid waste management, transport, finances, slums, PPPs, and governance. India's Urban Confusion will be a standard reference for urban planners, policymakers, government officials, local bodies/development authorities/other para stats, and academics interested in urban studies, economics, and development studies.?

Spatial Computing

Principles of Urban Transport Systems Planning

Web-Based Services: Concepts, Methodologies, Tools, and Applications

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Systemic Flexibility and Business Agility

Harvard Business Essentials: Guide To Negotiation

Security and Usability

Planning, Scheduling and Controlling

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 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

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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.

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.

For undergraduate students in civil engineering and the other planning professions, postgraduate students and practicing transport planners.

Equilibrium Analysis with Mathematical Programming Methods

Principles and Applications

Open-Source Technologies for Maximizing the Creation, Deployment, and Use of Digital

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Resources and Information

Finance for Engineers

Principles and Paradigms

Opportunities and Challenges

Emerging Patterns and Social-Ecological Systems

Industrial IoT (IIoT) and Industry 4.0 are newly developing and fast emerging domains of interest among students, researchers, and professionals in academia and industry. Due to the popular demand of this topic, Introduction to Industrial Internet of Things and Industry 4.0 is written to serve a diverse readership from the domains of computer science and engineering, mechanical engineering, information technology, industrial engineering, electronics engineering, and other related branches of engineering. Based on the lead author's massive open online courses (MOOCs), this book can be used as a textbook on the emerging paradigm of Industry 4.0 and IIoT, as well as a reference for professionals working in sectors of IIoT. The book covers the significant aspects of IIoT in detail, including sensors, actuators, data transmission, and data acquisition, which form the core of IIoT. Topics and concepts are presented in a comprehensive manner, so that readers can develop expertise and knowledge. The book helps beginners to gain a basic idea of Industry 4.0 and IIoT as the first section is an overview of IoT applications, infrastructure-based protocols,

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cloud computing, and fog computing. The second section is designed to impart a basic knowledge of Industry 4.0 and IIoT as well as of the different phases of development in industry. Delving into more advanced areas, other sections in the book cover: The business models and reference architecture of IIoT The technological aspects of Industry 4.0 and IIoT Predictive and prescriptive analytics applied in IIoT-based implementations Applications and case studies of IIoT Key enabling technologies of IIoT To aid students and professional master IIoT and Industry 4.0, the book includes conceptual questions, exercises, and learning objectives.

This book addresses comprehensive issues of infrastructure management at the sectoral level in India. This book analyses four critical sectors viz. Transportation, Power, Urban, and Digital Infrastructure and their planning and management from an Indian perspective. The book also identifies empirical risks and challenges in the planning and management of infrastructure in India. A diverse set of management solutions that can support better infrastructure management across sectors are also discussed in the present book.

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

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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.

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The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. *Web-Based Services: Concepts, Methodologies, Tools, and Applications* provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies.

Usable Security

Cloud Technology: Concepts, Methodologies, Tools, and Applications

India Infrastructure Report, 2007

ACRID 2017

Challenges, Opportunities and the Way Forward