

## Case Study Of Railway Reservation System

Revitalizing railways as a major sustainable transport mode in modern societies faces many issues and challenges. This in-depth overview places the importance of railways in the wider context of comprehensive sustainability, which encompasses sustainable development, social and economic equity and community livability. Some scholars have described the 21st century as a period of renaissance for railways and suggest this transport mode can fulfil people's desire for high mobility with low negative environmental, social, economic and financial impacts. In light of these new expectations for railways, in both passenger and freight transport worldwide, this book offers the latest research insights on the renewed interest about railway expansions and their wide-ranging environmental, socio-economic and even political implications.

This is book about basic concepts of DBMS & RDBMS. This book provides details about SQL with lots of examples. It is a book for those students who want to learn basic concept of DBMS as well as SQL with basic syntax .The book will surely clear the concepts of database & most important objective of this book is to create interest in students. Lots of case studies & assignments help reader to understand the concept and gain more practical knowledge.

In these times of flux, organisations are compelled to proactively effect changes in their systems to cope with various factors in the external and internal environment. This comprehensive book tackles all the areas where change interventions are necessary. It is divided into three parts: (1) Organisational Change (2) Organisation Development, and (3) Knowledge Management. The first part, comprising five chapters, includes an examination of the imperatives of change in today's environment of competition. The different forces of change political, economic, technological are examined against the backdrop of shifting customer needs, systems dynamics, inadequacy of administration, profitability issues and resource constraints. The various models of change, corporate culture in terms of basic value orientations and norms, techniques of identifying and diagnosing organisational culture, classical leadership skills, and the ten key factors in effective change management have all been thoroughly discussed, as have the techniques of designing tailor-made change programmes. The second part, comprising four chapters, introduces the concept of Organisation Development and dissects the basic assumptions against diagnostic models, skills and methods, change agents, power and control issues, and implications of power politics. Certain categories of ethical dilemmas have been explored. Various types of OD interventions ranging from interpersonal & team development to process, structural and intergroup development are exhaustively discussed. The third part of the book, comprising four chapters, highlights the need for knowledge management in the present business scenario and discusses the roadblocks to the adoption of knowledge management solutions. Principles of knowledge management have been discussed along with the process of maturation of knowledge management techniques. The characteristics of a learning organisation have been diagnosed and steps for initiating the process of organisational learning have been outlined. This book will be an invaluable resource for students, faculty as well as practising professionals.

The papers presented in this volume aim to update the use of advanced systems, promoting their general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. The book particularly emphasizes the use of computer systems in advanced railway engineering. Topics covered include: Communications and signalling; Operations quality; Energy supply and consumption; Monitoring and maintenance; Computer simulations Planning and policy; Operational planning; Safety and security; Rescheduling; Timetable planning.

Rapid advancement of interactive technologies during the past two decades has made access to information easier though at the expense of a clear digital divide. There is a generation who grew up with these technologies and another generation who find many modern electronic systems counter intuitive and have no use for them in their daily life. This digital divide becomes more prominent in developing countries as state-of-the-art interactive systems were not and are still not affordable to a large number of users. Inclusive Human Machine Interaction for India presents an end-to-end case study of developing interactive technology for the common people of India. With a foreword from Prof Ashok Juhunjhunwala (Professor, Indian Institute of Technology Madras), this book investigates problems of middle-aged and elderly users in adopting interactive technologies and proposes new user interfaces and interaction techniques. It pioneers in introducing state-of-the-art eye-gaze tracking based interaction to everyday computing tasks and presents a detailed literature survey and user studies on user modelling and eye-gaze tracking. Technologies presented in this book will not only be relevant for developing countries but will also find useful applications in developed countries.

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

This title stresses on Object Oriented and Classical Approach, by resorting to a concise presentation of the subject. In tune with reviewer comments and market feedback, the book takes an approach whereby a more balanced emphasis has been given to Design, Architecture and Management issues. Key features Extensive stress on Object Oriented Systems Analysis and Design. Separate chapter on Software Systems Design and Architecture (Chapter 5). Better organization with chapters on Testing for Software Quality (Chapter 14) and Quality Engineering for Software Quality

Assurance (Chapter 15), placed in succession. Case Studies conclude every chapter for better comprehension of concepts. Concepts presented through easy to understand language and schematic diagrams. Pedagogy: Figures: 197 Test Your Understandings: 198 Chapter End Case Studies: 15 Greater focus on Design and Architecture issues Stress on Software Project Management reduced to a required level Enhanced pedagogy with a Case Study concluding each chapter Concise presentation of the Software Engineering

This book covers IoT and Big Data from a technical and business point of view. The book explains the design principles, algorithms, technical knowledge, and marketing for IoT systems. It emphasizes applications of big data and IoT. It includes scientific algorithms and key techniques for fusion of both areas. Real case applications from different industries are offering to facilitate ease of understanding the approach. The book goes on to address the significance of security algorithms in combining IoT and big data which is currently evolving in communication technologies. The book is written for researchers, professionals, and academicians from interdisciplinary and transdisciplinary areas. The readers will get an opportunity to know the conceptual ideas with step-by-step pragmatic examples which makes ease of understanding no matter the level of the reader.

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing, ARMS-CC 2015, held in Conjunction with ACM Symposium on Principles of Distributed Computing, PODC 2015, in Donostia-San Sebastián, Spain, in July 2015. The 12 revised full papers, including 1 invited paper, were carefully reviewed and selected from 24 submissions. The papers have identified several important aspects of the problem addressed by ARMS-CC: self-\* and autonomous cloud systems, cloud quality management and service level agreement (SLA), scalable computing, mobile cloud computing, cloud computing techniques for big data, high performance cloud computing, resource management in big data platforms, scheduling algorithms for big data processing, cloud composition, federation, bridging, and bursting, cloud resource virtualization and composition, load-balancing and co-allocation, fault tolerance, reliability, and availability of cloud systems.

This book constitutes the refereed proceedings of the 7th International Conference on Rigorous State-Based Methods, ABZ 2020, which was due to be held in Ulm, Germany, in May 2020. The conference was cancelled due to the COVID-19 pandemic. The 12 full papers and 9 short papers were carefully reviewed and selected from 61 submissions. They are presented in this volume together with 2 invited papers, 6 PhD-Symposium-contributions, as well as the case study and 6 accepted papers outlining solutions to it. The papers are organized in the following sections: keynotes and invited papers; regular research articles; short articles; articles contributing to the case study; short articles of the PhD-symposium (work in progress).

Management of Banking and Financial Services focuses on the basic concepts of banking and financial services, and how these concepts are applied in the global banking environment as well as in India. In addition to presenting the big picture of the

This book presents fundamental and applied research aimed at the development of smart cities across India. Based on the exploration of an extensive array of multidisciplinary literature, this book discusses critical factors of smart city initiatives: management and organization, technology, governance, policy, people and communities, economy, infrastructure, and natural environment. These factors are broadly covered under the integrative framework of the book to examine the vision and challenges of smart city initiatives. The book suggests directions and agendas for smart city research and outlines practical implications for government professionals, students, research scholars and policy makers. A lot of work is happening on smart cities as it is an upcoming area of research and development. At international level, and even in India, the concept of smart cities concept is a hot topic at universities, research centers, ministries, transport departments, civic bodies, environment, energy and disaster organizations, town planners and policy makers. This book provides ideas and information to government officials, investors, experts and research students.

This book constitutes the post-conference proceedings of the CAiSE Forum from the 22nd International Conference on Advanced Information Systems Engineering (CAiSE 2010), held in Hammamet, Tunisia, June 9, 2010. While the CAiSE conference itself focuses on papers that report on matured research, the CAiSE forum was created specifically as a platform to present fresh ideas, new concepts, and new and innovative systems, tools, and applications. The 22 papers presented in this volume were carefully reviewed and selected from 32 submissions. The reworked and extended versions of the original presentations cover topics such as business process management, enterprise architecture and modeling, service-oriented architectures, and requirements engineering.

What does innovation mean to and in India? What are the predominant areas of innovation for India, and under what situations do they succeed or fail? This book addresses these all-important questions arising within diverse Indian contexts: informal economy, low-cost settings, large business groups, entertainment and copyright-based industries, an evolving pharma sector, a poorly organized and appallingly underfunded public health system, social enterprises for the urban poor, and innovations for the millions. It explores the issues that promote and those that hinder the country's rise as an innovation leader. The book's balanced perspective on India's promises and failings makes it a valuable addition for those who believe that India's future banks heavily on its ability to leapfrog using innovation, as well as those sceptical of the Indian state's belief in the potential of private enterprise and innovation. It also provides critical insights on innovation in general, the most important of which being the highly context-specific, context-driven character of the innovation project.

Based on the findings of large-scale field surveys, Good Governance provides a primary review of trends in corruption, as encountered by citizens when availing of public services, and offers insightful suggestions on ways to implement good governance. Given the adverse effects of corruption on society, economy, citizenship and civic life, the author illuminates upon a comprehensive understanding of the linkages involved in corruption processes and operations, and provides a strategic approach to curb this menace together with a methodology for ensuring graft-free delivery of public services. Not delineating corruption from the fabric of daily life, the discussion centres around a broad framework on how to go about addressing corruption from different perspectives-how the government should tackle it, what initiatives citizens and civil society should take and how the news media could explore a proactive and contributing role. In fact, the book says that the media is capable of covering corruption with a direct objective of curbing it. Thus, the fight against corruption has to be strategic, focused and multipronged. Good Governance talks about the pertinent problem of creating sustained public pressure for change, the emphasis being on the proactive need for change.

This Book Deals With All The Technologies Used In The Design Of Services Over The Web. It Begins With The Principles And Concepts Used In Internet And Worldwide Web. Html Is Explained In Two Chapters. Since Frames And Forms Are Vital Components In Interactive Web Pages, A Separate Chapter Is Dedicated With Several Examples. Javascript, The Popular Scripting Language Used In Client Side Data Validation Is Then Explained With Adequate Object Oriented Style. The Server Side Code Is Explained With Jsp.The Whole Of Jsp Is Explained And Illustrated Using Several Examples. Jsp Is Used With Jdbc For Accessing Databases. Java Database Connectivity Is Given Due Importance And Simple Web Applications Have Been Developed. Java Servlet Is Fully Explained With Several

Examples. Four Minor Projects On Design And Application Are Given In The Last Four Chapters. These Projects Are Fully Explained According To The Software Development Life Cycle. The Complete Set Of Design Documents, Code And Testing Strategies Are Explained. This Book Will Serve As A Complete Textbook For Various Graduate And Postgraduate Courses.

Written With The Dual Purpose Of In Depth Study Of Operations Research And Creating An Awareness About Its Applicability The Third Edition Of The Book Covers Diverse Topics Such As Linear Programming, Network Planning, Inventory Control, Waiting Line Problems, Simulation, Problems Of Replacement, Reliability And Elements Of Non-Linear Programming With Appropriate Rigour. It Also Includes Real Life Applications Of Operations Manufacturing To Make The Readers Familiar With Operations Research Methodology. The Book Also Contains Numerous Examples And Exercises With Answers To Help The Students Develop Problem Solving Skill. The New Edition Also Presents Computer Programmes To Be Used On A Personal Computer For The Benefit Of The Students With A Computer Orientation.

This comprehensive text on Quality Management provides ways and means of delivering efficient and effective production/services quality to utmost satisfaction of the customers. Comprising 20 chapters, the book explains the concepts and techniques of quality management supported with related case studies. Numerical examples given in each chapter help students to understand the concept easily. Primarily designed for MBA, ME/MTech (Industrial Engineering, Production Engineering), BE/BTech (Mechanical Engineering and Production Engineering) and MSc (Operations Research and Statistical Quality Control), the book also serves as a reference for professionals/consultants to carryout projects in quality domain for manufacturing or service organisations. KEY FEATURES OF THE BOOK • Detailed coverage of process and statistical quality control • Chapters on ANOVA, orthogonal arrays and signal-to-noise ratio • A chapter on Six Sigma including Shainin techniques • A chapter on Analytical Hierarchy Process (AHP) • Presentation of Design of Experiments (DOE) techniques Audience • MBA • ME/MTech (Industrial Engineering, Production Engineering) • BE/BTech (Mechanical Engineering and Production Engineering) • MSc (Operations Research and Statistical Quality Control)

Human-Computer Interaction based on human computer communication is designed for the Computer Science and Engineering students and technological aficionados. In sync with syllabus of institutions offering the subject, the book focuses on designing the user-centric system software, incorporating the user behaviour and mental models. It includes topics on basic software design process and its stages, role of computation in design, computational framework for design, and computational models of users and systems. All concepts, laws and challenges are validated with cases studies and practical examples. The book appraises reader with the state-of-the-art technological development, with the underlying theme that humans come first. Few Highlights from the book: • Dedicated chapter on recent trends in the user-centric systems • Illustrative case studies on key concepts and various user-centric devices • Covers new concepts, such as, ubiquitous area and wearable devices • Addresses issues and challenges, both from the research and development perspective

A textbook on computer science

Faced with increasing challenges, railways around Europe have recently undergone major reforms aiming to improve the efficiency and competitiveness of the railway sector. New market structures such as vertical separation, deregulation and open access can allow for reduced public expenditures, increased market competition, and more efficient railway systems. However, these structures have introduced new challenges for managing infrastructure and operations. Railway capacity allocation, previously internally performed within monopolistic national companies, are now conferred to an infrastructure manager. The manager is responsible for transparent and efficient allocation of available capacity to the different (often competing) licensed railway undertakings. This thesis aims at developing a number of methods that can help allocate capacity in a deregulated (vertically separated) railway market. It focuses on efficiency in terms of social welfare, and transparency in terms of clarity and fairness. The work is concerned with successive allocation of capacity for publicly controlled and commercial traffic within a segmented railway market. The contributions include cost benefit analysis methods that allow public transport authorities to assess the social welfare of their traffic, and create efficient schedules. The thesis also describes a market-based transparent capacity allocation where infrastructure managers price commercial train paths to solve capacity conflicts with publicly controlled traffic. Additionally, solution methods are developed to help estimate passenger demand, which is a necessary input both for resolving conflicts, and for creating efficient timetables. Future capacity allocation in deregulated markets may include solution methods from this thesis. However, further experimentations are still required to address concerns such as data, legislation and acceptability. Moreover, future works can include prototyping and pilot projects on the proposed solutions, and investigating legal and digitalisation strategies to facilitate the implementation of such solutions. Med ökande utmaningar har järnvägar runt om i Europa genomgått stora reformer som syftar till att förbättra järnvägssektorns effektivitet och konkurrenskraft. Nya marknadsstrukturer såsom vertikal separering, avreglering och öppet tillträde för flera operatörer kan möjliggöra minskade offentliga kostnader, ökad marknadskonkurrens och effektivare järnvägssystem. Denna omreglering av järnvägsmarknaderna har dock skapat nya utmaningar för hanteringen av järnvägsinfrastruktur och drift. Tilldelning av järnvägskapacitet, vilket tidigare sköttes inom nationella monopolföretag, måste nu göras av en infrastrukturförvaltare (infrastructure manager). Förvaltarens kapacitetstilldelning till olika (ofta konkurrerande) licensierade järnvägsföretag (railway undertakings) måste samtidigt vara transparent, rättvis och leda till ett effektivt kapacitetsutnyttjande. I denna avhandling utvecklas metoder som kan användas av en infrastrukturförvaltare för att tilldela kapacitet i en avreglerad järnvägsmarknad. Den fokuserar på samhällsekonomiskt effektiva utfall men även transparens, tydlighet och rättvisa. Avhandlingens bidrag omfattar samhällsekonomiska analysmetoder som gör det möjligt för regionala kollektivtrafikmyndigheter att bedöma den samhällsekonomiska effektiviteten för deras trafikering och skapa ett effektivt

utbud. Med dessa metoder som utgångspunkt beskrivs en marknadsbaserad och transparent tilldelningsprocess för kapacitet där infrastrukturförvaltare prissätter kommersiella tåglägen för att lösa kapacitetskonflikter med offentligt kontrollerad trafik. Dessutom utvecklas optimeringsmetoder för att estimerar passagerarefterfrågan och för att skapa effektiva tågtidtabeller. Framtida kapacitetstilldelning på avreglerade marknader kan inkludera lösningsmetoder från denna avhandling. Ytterligare experiment krävs dock fortfarande för att hantera problem såsom data, lagstiftning och godtagbarhet. Dessutom kan framtida arbete omfatta prototyper och pilotprojekt av de föreslagna lösningarna och undersöka lagliga och digitaliseringsstrategier för att underlätta implementeringen av sådana lösningar.

Test Automation and QTP: (QTP 9.2, QTP 9.5, QTP 10.0 and Functional Test 11.0) is a one-stop resource that explains all concepts, features and benefits of test automation and QTP with real-time examples. This book has been designed to be a beginner's guide for new users, a companion guide for experienced users and a reference guide for professionals appearing for interviews or certification exams on test automation and QTP.

The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2016) held at School of Computer Engineering, KIIT University, Bhubaneswar, India during 16 - 17 September 2016. The book aims to present theories, methodologies, new ideas, experiences, applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science, electronics, electrical, mechanical engineering, etc.

This text, now in the Third Edition, aims to provide students with a clear, well-structured and comprehensive treatment of the theory and applications of operations research. The methodology used is to first introduce the students to the fundamental concepts through numerical illustrations and then explain the underlying theory, wherever required. Inclusion of case studies in the existing chapters makes learning easier and more effective. The book introduces the readers to various models of Operations Research (OR), such as transportation model, assignment model, inventory models, queueing theory and integer programming models. Various techniques to solve OR problems' faced by managers are also discussed. Separate chapters are devoted to Linear Programming, Dynamic Programming and Quadratic Programming which greatly help in the decision-making process. The text facilitates easy comprehension of topics by the students due to inclusion of: • Examples and situations from the Indian context. • Numerous exercise problems arranged in a graded manner. • A large number of illustrative examples. The text is primarily intended for the postgraduate students of management, computer applications, commerce, mathematics and statistics. Besides, the undergraduate students of mechanical engineering and industrial engineering will find this book extremely useful. In addition, this text can also be used as a reference by OR analysts and operations managers. **NEW TO THE THIRD EDITION** • Includes two new chapters: – Chapter 14: Project Management—PERT and CPM – Chapter 15: Miscellaneous Topics (Game Theory, Sequencing and Scheduling, Simulation, and Replacement Models) • Incorporates more examples in the existing chapters to illustrate new models, algorithms and concepts • Provides short questions and additional numerical problems for practice in each chapter

The British railway network was a monument to Victorian private enterprise. Its masterpieces of civil engineering were emulated around the world. But its performance was controversial: praised for promoting a high density of lines, it was also criticised for wasteful duplication of routes. This is the first history of the British railway system written from a modern economic perspective. It uses counterfactual analysis to construct an alternative network to represent the most efficient alternative rail network that could have been constructed given what was known at the time - the first time this has been done. It reveals how weaknesses in regulation and defects in government policy resulted in enormous inefficiency in the Victorian system that Britain lives with today. British railway companies developed into powerful regional monopolies, which then contested each other's territories. When denied access to existing lines in rival territories, they built duplicate lines instead. Plans for an integrated national system, sponsored by William Gladstone, were blocked by Members of Parliament because of a perceived conflict with the local interests they represented. Each town wanted more railways than its neighbours, and so too many lines were built. The costs of these surplus lines led ultimately to higher fares and freight charges, which impaired the performance of the economy. The book will be the definitive source of reference for those interested in the economic history of the British railway system. It makes use of a major new historical source, deposited railway plans, integrates transport and local history through its regional analysis of the railway system, and provides a comprehensive, classified bibliography.

The Oneida Indians, already weakened by their participation in the Civil War, faced the possibility of losing their reservation—their community's greatest crisis since its resettlement in Wisconsin after the War of 1812. *The Oneida Indians in the Age of Allotment, 1860–1920* is the first comprehensive study of how the Oneida Indians of Wisconsin were affected by the Dawes General Allotment Act of 1887, the Burke Act of 1906, and the Federal Competency Commission, created in 1917. Editors Laurence M. Hauptman and L. Gordon McLester III draw on the expertise of historians, anthropologists, and archivists, as well as tribal attorneys, educators, and elders to clarify the little-understood transformation of the Oneida reservation during this era. Sixteen WPA narratives included in this volume tell of Oneida struggles during the Civil War and in boarding schools; of reservation leaders; and of land loss and other hardships under allotment. This book represents a unique collaborative effort between one Native American community and academics to present a detailed picture of the Oneida Indian past.

This book aims to provide an international forum for scholarly researchers, practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

It is widely recognised that the knowledge of information systems is essential in today's business organisations to survive and prosper. This book in its Second Edition, discusses all the major areas in information systems. It includes issues in the design, development and application of organisation-wide information systems and their effect on business and organisations. The issues

discussed in the book supports the management of an enterprise in its planning, operation and control functions. SALIENT FEATURES OF THE bOOK • Balanced treatment of both the technical and organisational issues involved • Wide range of topics including databases, decision support systems, expert systems and system analysis • Contemporary examples from the Indian industry Though the main structure of the Second Edition remains the same, the chapters have been updated and revised as per the recent developments in the field of information technology. NEW TO THIS EDITION • Several 'Case-studies' have been incorporated at the end of each chapter. • New references have been included in the text to support the added text. • Learning objectives have been given at the beginning of each chapter. • The text is presented in an attractive manner as numerous new figures and pictures have been added.

Endorsed by University of Cambridge International Examinations. Cambridge IGCSE Travel and Tourism has been written specifically for the Cambridge IGCSE Travel and Tourism syllabus. Sections have been split into units, each dealing with a particular topic, and are cross-referenced to other units wherever appropriate. This new title contains a wide variety of activities and questions to check and facilitate students' understanding, as well as case studies and illustrative examples encouraging subject-based knowledge and a truly international approach.

How can otherwise normal, moral persons - as citizens, voters, and jurors - participate in a process that is designed to take the life of another? In DEATH BY DESIGN, research psychologist Craig Haney argues that capital punishment, and particularly the sequence of events that lead to death sentencing itself, is maintained through a complex and elaborate social psychological system that distances and disengages us from the true nature of the task. Relying heavily on his own research and that of other social scientists, Haney suggests that these social psychological forces enable persons to engage in behavior from which many of them otherwise would refrain. However, by facilitating death sentencing in these ways, this inter-related set of social psychological forces also undermines the reliability and authenticity of the process, and compromises the fairness of its outcomes. Because these social psychological forces are systemic in nature - built into the very system of death sentencing itself - Haney concludes by suggesting a number of inter-locking reforms, derived directly from empirical research on capital punishment, that are needed to increase the fairness and reliability of the process. The historic and ongoing public debate over the death penalty takes place not only in courtrooms, but also in classrooms, offices, and living rooms. This timely book offers stimulating insights into capital punishment for professionals and students working in psychology, law, criminology, sociology, and cultural area studies. As capital punishment receives continued attention in the media, it is also a necessary and provocative guide that empowers all readers to come to their own conclusions about the death penalty.

The White Paper, 'Delivering a sustainable railway' (Cm. 7176, ISBN 9780101717625) published on July 2007 and set the Government's general vision for the railways for the next thirty years. Network Rail's engineering overruns at New Year 2008 caused tremendous inconvenience to passengers across the country and inevitably shaped the Committee's oral evidence sessions. The Committee's investigation, along with analyses from the Office of Rail Regulation (ORR) have led them to believe that the engineering overruns are symptomatic of crucial system flaws which have to be resolved if there is to be any hope of getting a sustainable railway, as promised in the White Paper. This report covers both subjects

This comprehensive and well-written book presents the fundamentals of object-oriented software engineering and discusses the recent technological developments in the field. It focuses on object-oriented software engineering in the context of an overall effort to present object-oriented concepts, techniques and models that can be applied in software estimation, analysis, design, testing and quality improvement. It applies unified modelling language notations to a series of examples with a real-life case study. The example-oriented approach followed in this book will help the readers in understanding and applying the concepts of object-oriented software engineering quickly and easily in various application domains. This book is designed for the undergraduate and postgraduate students of computer science and engineering, computer applications, and information technology. KEY FEATURES : Provides the foundation and important concepts of object-oriented paradigm. Presents traditional and object-oriented software development life cycle models with a special focus on Rational Unified Process model. Addresses important issues of improving software quality and measuring various object-oriented constructs using object-oriented metrics. Presents numerous diagrams to illustrate object-oriented software engineering models and concepts. Includes a large number of solved examples, chapter-end review questions and multiple choice questions along with their answers.

This book presents real-world problems and exploratory research that describes novel approaches in software engineering, cybernetics and algorithms in the context of intelligent systems. It constitutes the refereed proceedings of the 3rd Computational Methods in Systems and Software 2019 (CoMeSySo 2019) conference, a groundbreaking online conference that provides an international forum for discussing the latest high-quality research results.

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