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KEY=SIMULASI - RANDALL MARKS

SIMULATION

THE PRACTICE OF MODEL DEVELOPMENT AND USE

John Wiley & Sons Incorporated Simulation modelling involves the development of models that imitate real-world operations, and statistical analysis of their performance with a view to improving efficiency and effectiveness. This non-technical textbook is focused towards the needs of business, engineering and computer science students, and concentrates on discrete event simulations as it is used in operations management. Stewart Robinson of Warwick Business School offers guidance through the key stages in a simulation project in terms of both the technical requirements and the project management issues surrounding it. Readers will emerge able to develop appropriate valid conceptual models, perform simulation experiments, analyse the results and draw insightful conclusions.

TRAFFIC JAM

TEN YEARS OF 'SUSTAINABLE' TRANSPORT IN THE UK

Policy Press This informed and lively book offers a timely analysis of the UK government's sustainable - or subsequently 'integrated' - transport policy 10 years after the publication of A New Deal for Transport: Better for Everyone. Written by prominent transport experts and with a foreword by Christian Wolmar, the book identifies the modest successes and, sadly, the far more significant failures in government policy over the last decade. The authors also uncover why it has proved so difficult to adopt a more sustainable approach to transport and break Britain's love-affair with the car. The book reviews the links between the idea of sustainability and transport policy, and provides an up-to-the-minute analysis of the political realities surrounding the delivery of a sustainable transport agenda in the UK. It picks up on the principal components of A New Deal for Transport and evaluates to what extent these have, or haven't, been delivered in England, Scotland, Wales and Northern Ireland. The contributors analyse why delivering sustainable transport policies seems to present particular difficulties to ministers across the UK, and considers the UK's experience in an international perspective. The book draws lessons from the last 10 years in order to better inform future policy development. Traffic Jam is an indispensable analysis of the difficulties involved in turning policy ideals into practical reality, and as such will be of interest to scholars, students, planners, policy analysts and policy makers.

OPTIMAL TRAFFIC CONTROL

URBAN INTERSECTIONS

CRC Press Despite traffic circles, four-way stop signs, lights regulated by timers or sensors, and other methods, the management of urban intersections remains problematic. Consider that transportation systems have all the features of so-called complex systems: the great number of state and control variables, the presence of uncertainty and indeterminism, the complex interactions between subsystems, the necessity to optimize several optimization criteria, and active behavior of the controlled process, to name just a few. Therefore, a mathematical approach to these systems can resolve their complex issues more elegantly than other methods. Addressing both efficiency and traffic safety issues, Optimal Traffic Control: Urban Intersections examines the traffic control optimization problem and presents a novel solution method. Using an approach based on control theory, graph theory, and combinatorial optimization, the authors derive a full mathematical description of the traffic control problem and enumerate all combinatorial aspects. The result is a set of algorithmic solutions to various problems along with computer implementation that you can incorporate into real traffic control systems for immediate results. The book concludes by evaluating how the choice of a complete set of signal groups influences intersection performance. Although modern cities throughout the world have a unique character influenced by culture, geography, and population, most of them share one main feature: busy intersections and the issue of controlling the traffic traveling through them. The development of information technologies, especially computer and telecommunications techniques, has changed the complexity of the problem and influenced the development of new solutions. Clearly stating the issues and presenting a possible solution, this book shows you how to take full advantage of all the capabilities of microprocessor-based traffic signal controllers.

DATA ANALYTICS FOR INTELLIGENT TRANSPORTATION SYSTEMS

Elsevier Data Analytics for Intelligent Transportation Systems provides in-depth coverage of data-enabled methods for analyzing intelligent transportation systems that includes detailed coverage of the tools needed to implement these methods using big data analytics and other computing techniques. The book examines the major characteristics of connected transportation systems, along with the fundamental concepts of how to analyze the data they produce. It explores collecting, archiving, processing, and distributing the data, designing data infrastructures, data management and delivery systems, and the required hardware and software technologies. Users will learn how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications, along with key safety and environmental applications for both commercial and passenger vehicles, data privacy and security issues, and the role of social media data in traffic planning. Includes case studies in each chapter that illustrate the application of concepts covered Presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies Contains contributors from both leading academic and commercial researchers Explains how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications

FUNDAMENTALS OF WIRELESS SENSOR NETWORKS

THEORY AND PRACTICE

John Wiley & Sons In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology. The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented – this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features: Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of civil infrastructure, health care, precision agriculture, traffic control, and homeland security.

INFORMATION AND TELECOMMUNICATION TECHNOLOGIES (APSITT), 2010 8TH ASIA-PACIFIC SYMPOSIUM ON

ELECTRONICS FUNDAMENTALS

A SYSTEMS APPROACH

Prentice Hall Electronics Fundamentals: A Systems Approach takes a broader view of fundamental circuits than most standard texts, providing relevance to basic theory by stressing applications of dc/ac circuits and basic solid state circuits in actual systems.

METEOROLOGICAL DROUGHT

The underlying concept of the paper is that the amount of precipitation required for the near-normal operation of the established economy of an area during some stated period is dependent on the average climate of the area and on the prevailing meteorological conditions both during and preceding the month or period in question. A method for computing this required precipitation is demonstrated.

A BIOMETRIC STUDY OF BASAL METABOLISM IN MAN

Legare Street Press This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

THE ILLUSTRATED NETWORK

HOW TCP/IP WORKS IN A MODERN NETWORK

Morgan Kaufmann In 1994, W. Richard Stevens and Addison-Wesley published a networking classic: TCP/IP Illustrated. The model for that book was a brilliant, unfettered approach to networking concepts that has proven itself over time to be popular with readers of beginning to intermediate networking knowledge. The Illustrated Network takes this time-honored approach and modernizes it by creating not only a much larger and more complicated network, but also by incorporating all the networking advancements that have taken place since the mid-1990s, which are many. This book takes the popular Stevens approach and modernizes it, employing 2008 equipment, operating systems, and router vendors. It presents an ?illustrated? explanation of how TCP/IP works with consistent examples from a real, working network configuration that includes servers, routers, and workstations. Diagnostic traces allow the reader to follow the discussion with unprecedented clarity and precision. True to the title of the book, there are 330+ diagrams and screen shots, as well as topology diagrams and a unique repeating chapter opening diagram. Illustrations are also used as end-of-chapter questions. A complete and modern network was assembled to write this book, with all the material coming from real objects connected and running on the network, not assumptions. Presents a real world networking scenario the way the reader sees them in a device-agnostic world. Doesn't preach one platform or the other. Here are ten key differences between the two: Stevens Goralski's Older operating systems (AIX,svr4,etc.) Newer OSs (XP, Linux, FreeBSD, etc.) Two routers (Cisco, Telebit (obsolete)) Two routers (M-series, J-series) Slow Ethernet and SLIP link Fast Ethernet, Gigabit Ethernet, and SONET/SDH links (modern) Tcpdump for traces Newer, better utility to capture traces (Ethereal, now has a new name!) No IPSec IPSec No multicast Multicast No router security discussed Firewall routers detailed No Web Full Web browser HTML consideration No IPv6 IPv6 overview Few configuration details More configuration details (ie, SSH, SSL, MPLS, ATM/FR consideration, wireless LANS, OSPF and BGP routing protocols New Modern Approach to Popular Topic Adopts the popular Stevens approach and modernizes it, giving the reader insights into the most up-to-date network equipment, operating systems, and router vendors. Shows and Tells Presents an illustrated explanation of how TCP/IP works with consistent examples from a real, working network configuration that includes servers, routers, and workstations, allowing the reader to follow the discussion with unprecedented clarity and precision. Over 330 Illustrations True to the title, there are 330 diagrams, screen shots, topology diagrams, and a unique repeating chapter opening diagram to reinforce concepts Based on Actual Networks A complete and modern network was assembled to write this book, with all the material coming from real objects connected and running on the network, bringing the real world, not theory, into sharp focus.

ROUTING PROTOCOLS COMPANION GUIDE

Pearson Education Contributions by Rick Graziani and Bob Vachon.

SAFETY AND HEALTH IN FORESTRY WORK

International Labour Organization

WIRELESS NETWORKING IN THE DEVELOPING WORLD

A PRACTICAL GUIDE TO PLANNING AND BUILDING

Orange Groove Books Provides instructions on how to build low-cost telecommunications infrastructure. Topics covered range from basic radio physics and network design to equipment and troubleshooting, a chapter on Voice over IP (VoIP), and a selection of four case studies from networks deployed in Latin America. The text was written and reviewed by a team of experts in the field of long distance wireless networking in urban, rural, and remote areas. Contents: 1) Where to Begin. 2) A Practical Introduction to Radio Physics. 3) Network Design. 4) Antennas & Transmission Lines. 5) Networking Hardware. 6) Security & Monitoring. 7) Solar Power. 8) Building an Outdoor Node. 9) Troubleshooting. 10) Economic Sustainability. 11) Case Studies. See the website for translations, including French, Spanish, Portuguese, Italian, Arabic, and others, and additional case studies, training course material, and related information

QUEUEING SYSTEMS

PROBLEMS AND SOLUTIONS

Wiley-Interscience This manual contains all the problems to Leonard Kleinrock's Queueing Systems, Volume One, and their solutions. The manual offers a concise introduction so that it can be used independently from the text. Contents include: * A Queueing Theory Primer * Random Processes * Birth-Death Queueing Systems * Markovian Queues * The Queue M/G/1 * The Queue G/M/m * The Queue G/G/1

DISCRETE EVENT SYSTEMS

MODELING AND PERFORMANCE ANALYSIS

McGraw-Hill Science, Engineering & Mathematics

SIMULATIONS AND THE FUTURE OF LEARNING

AN INNOVATIVE (AND PERHAPS REVOLUTIONARY) APPROACH TO E-LEARNING

John Wiley & Sons Simulations and the Future of Learning offers trainers andeducators the information and perspective they need to understand,design, build, and deploy computer simulations for this generation.Looking back on his recent first-hand experience as lead designerfor an advanced leadership development simulation, author ClarkAldrich has created a detailed case study of the creation anddeployment of an e-learning simulation that had the developmentcycle of a modern computer game. With this book Aldrich, a leaderin the e-learning field, has created an intriguing roadmap for thefuture of learning while taking us along on an entertainingrollercoaster ride of trial and error, success and failure.Simulations and the Future of Learning outlines the designprinciples and critical decisions around any simulation'scomponents— the interface, the physics and animation systems,the artificial intelligence, and sets and figures. Using thisaccessible resource, readers will learn how to create and evaluatesuccessful simulations that have the following characteristics:authentic and relevant scenarios; applied pressure situations thattap user's emotion and force them to act; a sense of unrestrictedoptions; and replayability.

DIGITAL INTEGRATED CIRCUITS

ANALYSIS AND DESIGN, SECOND EDITION

CRC Press Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work. The continued scaling down of MOS transistors has broadened the scope of use for circuit technology to the point that texts on the topic are generally lacking after a few years. The second edition of Digital Integrated Circuits: Analysis and Design focuses on timeless principles with a modern interdisciplinary view that will serve integrated circuits engineers from all disciplines for years to come. Providing a revised instructional reference for engineers involved with Very Large Scale Integrated Circuit design and fabrication, this book delves into the dramatic advances in the field, including new applications and changes in the physics of operation made possible by relentless miniaturization. This book was conceived in the versatile spirit of the field to bridge a void that had existed between books on transistor electronics and those covering VLSI design and fabrication as a separate topic. Like the first edition, this volume is a crucial link for integrated circuit engineers and those studying the field, supplying the cross-disciplinary connections they require for guidance in more advanced work. For pedagogical reasons, the author uses SPICE level 1 computer simulation models but introduces BSIM models that are indispensable for VLSI design. This enables users to develop a strong and intuitive sense of device and circuit design by drawing direct connections between the hand analysis and the SPICE models. With four new chapters, more than 200 new illustrations, numerous worked examples, case studies, and support provided on a dynamic website, this text significantly expands concepts presented in the first edition.

BLOW-FILL-SEAL TECHNOLOGY

Taylor & Francis US

INTRODUCTION TO DIGITAL SYSTEMS

MODELING, SYNTHESIS, AND SIMULATION USING VHDL

Wiley A unique guide to using both modeling and simulation in digital systems design Digital systems design requires rigorous modeling and simulation analysis that eliminates design risks and potential harm to users. Introduction to Digital Systems: Modeling, Synthesis, and Simulation Using VHDL introduces the application of modeling and synthesis in the effective design of digital systems and explains applicable analytical and computational methods. Through step-by-step explanations and numerous examples, the author equips readers with the tools needed to model, synthesize, and simulate digital principles using Very High Speed Integrated Circuit Hardware Description Language (VHDL) programming. Extensively classroom-tested to ensure a fluid presentation, this book provides a comprehensive overview of the topic by integrating theoretical principles, discrete mathematical models, computer simulations, and basic methods of analysis. Topical coverage includes: Digital systems modeling and simulation Integrated logic Boolean algebra and logic Logic function optimization Number systems Combinational logic VHDL design concepts Sequential and synchronous sequential logic Each chapter begins with learning objectives that outline key concepts that follow, and all discussions conclude with problem sets that allow readers to test their comprehension of the presented material. Throughout the book, VHDL sample codes are used to illustrate circuit design, providing guidance not only on how to learn and master VHDL programming, but also how to model and simulate digital circuits. Introduction to Digital Systems is an excellent book for courses in modeling and simulation, operations research, engineering, and computer science at the upper-undergraduate and graduate levels. The book also serves as a valuable resource for researchers and practitioners in the fields of operations research, mathematical modeling, simulation, electrical engineering, and computer science.

AIRFIELD LIGHTING

LIFE-SIM: LIVESTOCK FEEDING STRATEGIES. SIMULATION MODELS NATURAL RESOURCES MANAGEMENT DIVISION SIMULATION MODELDS

International Potato Center

NETWORK MANAGEMENT KNOW IT ALL

Elsevier Network management refers to the activities, methods, procedures, and tools that pertain to the operation, administration, maintenance, and provisioning of networked systems, which includes controlling, planning, allocating, deploying, coordinating, and monitoring the resources of a network. This book brings all of the elements of network management together in a single volume, saving the reader the time and expense of making multiple purchases. It introduces network management, explains the basics, describes the protocols, and discusses advanced topics, by the best and brightest experts in the field. It is a quick and efficient way to bring valuable content together from leading experts in the field while creating a one-stop-shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources. * Chapters contributed by recognized experts in the field cover theory and practice of network management, allowing the reader to develop a new level of knowledge and technical expertise. * This book's up-to-date coverage of network quality of service issues facilitates learning and lets the reader remain current and fully informed from multiple viewpoints. * Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions. * Use of examples illustrate core network management concepts for enhanced comprehension.

PROBABILITY AND RANDOM PROCESSES FOR ELECTRICAL AND COMPUTER ENGINEERS

Cambridge University Press The theory of probability is a powerful tool that helps electrical and computer engineers to explain, model, analyze, and design the technology they develop. The text begins at the advanced undergraduate level, assuming only a modest knowledge of probability, and progresses through more complex topics mastered at graduate level. The first five chapters cover the basics of probability and both discrete and continuous random variables. The later chapters have a more specialized coverage, including random vectors, Gaussian random vectors, random processes, Markov Chains, and convergence. Describing tools and results that are used extensively in the field, this is more than a textbook; it is also a reference for researchers working in communications, signal processing, and computer network traffic analysis. With over 300 worked examples, some 800 homework problems, and sections for exam preparation, this is an essential companion for advanced undergraduate and graduate students. Further resources for this title, including solutions (for Instructors only), are available online at www.cambridge.org/9780521864701.

INTRODUCTION TO TRAFFIC ENGINEERING: A MANUAL FOR DATA COLLECTION AND ANALYSIS

Cengage Learning Research leading to the continuous improvement of traffic analysis techniques depends on the ongoing collection of data relating to driver behavior. INTRODUCTION TO TRAFFIC ENGINEERING: A MANUAL FOR DATA COLLECTION AND ANALYSIS is meant to aid both the student of traffic engineering and the transportation professional in sound data collection and analysis methods. It presents step-by-step techniques for several traffic engineering topics. Each topic is introduced in a consistent manner, and data collection and analysis forms are provided for each study. Studies are organized to facilitate inclusion in a formal transportation engineering report. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INTRODUCTION TO EMBEDDED SYSTEMS

USING ANSI C AND THE ARDUINO DEVELOPMENT ENVIRONMENT

Morgan & Claypool Publishers Many electrical and computer engineering projects involve some kind of embedded system in which a microcontroller sits at the center as the primary source of control. The recently-developed Arduino development platform includes an inexpensive hardware development board hosting an eight-bit ATMEL ATmega-family processor and a Java-based software-development environment. These features allow an embedded systems beginner the ability to focus their attention on learning how to write embedded software instead of wasting time overcoming the engineering CAD tools learning curve. The goal of this text is to introduce fundamental methods for creating embedded software in general, with a focus on ANSI C. The Arduino development platform provides a great means for accomplishing this task. As such, this work presents embedded software development using 100% ANSI C for the Arduino's ATmega328P processor. We deviate from using the Arduino-specific Wiring libraries in an attempt to provide the most general embedded methods. In this way, the reader will acquire essential knowledge necessary for work on future projects involving other processors. Particular attention is paid to the notorious issue of using C pointers in order to gain direct access to microprocessor registers, which ultimately allow control over all peripheral interfacing. Table of Contents: Introduction / ANSI C / Introduction to Arduino / Embedded Debugging / ATmega328P Architecture / General-Purpose Input/Output / Timer Ports / Analog Input Ports / Interrupt Processing / Serial Communications / Assembly Language / Non-volatile Memory

ZIGBEE WIRELESS NETWORKS AND TRANSCEIVERS

Newnes ZigBee is a short-range wireless networking standard backed by such industry leaders as Motorola, Texas Instruments, Philips, Samsung, Siemens, Freescale, etc. It supports mesh networking, each node can transmit and receive data, offers high security and robustness, and is being rapidly adopted in industrial, control/monitoring, and medical applications. This book will explain the ZigBee protocol, discuss the design of ZigBee hardware, and describe how to design and implement ZigBee networks. The book has a dedicated website for the latest technical updates, ZigBee networking calculators, and additional materials. Dr. Farahani is a ZigBee system engineer for Freescale semiconductors Inc. The book comes with a dedicated website that contains additional resources and calculators: http://www.learnZigBee.com Provides a comprehensive overview of ZigBee technology and networking, from RF/physical layer considerations to application layer development Discusses ZigBee security features such as encryption Describes how ZigBee can be used in location detection applications Explores techniques for ZigBee co-existence with other wireless technologies such as 802.11 and Bluetooth The book comes with a dedicated website that contains additional resources and calculators: http://www.learnZigBee.com

INTRODUCTION TO WEBOMETRICS

QUANTITATIVE WEB RESEARCH FOR THE SOCIAL SCIENCES

Morgan & Claypool Publishers Webometrics is concerned with measuring aspects of the web: web sites, web pages, parts of web pages, words in web pages, hyperlinks, web search engine results. The importance of the web itself as a communication medium and for hosting an increasingly wide array of documents, from journal articles to holiday brochures, needs no introduction. Given this huge and easily accessible source of information, there are limitless possibilities for measuring or counting on a huge scale (e.g., the number of web sites, the number of web pages, the number of blogs) or on a smaller scale (e.g., the number of web sites in Ireland, the number of web pages in the CNN web site, the number of blogs mentioning Barack Obama before the 2008 presidential campaign). This book argues that it can be useful for social scientists to measure aspects of the web and explains how this can be achieved on both a small and large scale. The book is intended for social scientists with research topics that are wholly or partly online (e.g., social networks, news, political communication) and social scientists with offline research topics with an online reflection, even if this is not a core component (e.g., diaspora communities, consumer culture, linguistic change). The book is also intended for library and information science students in the belief that the knowledge and techniques described will be useful for them to guide and aid other social scientists in their research. In addition, the techniques and issues are all directly relevant to library and information science research problems. Table of Contents: Introduction / Web Impact Assessment / Link Analysis / Blog Searching / Automatic Search Engine Searches: LexiURL Searcher / Web Crawling: SocSciBot / Search Engines and Data Reliability / Tracking User Actions Online / Advaned Techniques / Summary and Future Directions

NUMERICAL METHODS IN ENGINEERING WITH PYTHON 3

Cambridge University Press Provides an introduction to numerical methods for students in engineering. It uses Python 3, an easy-to-use, high-level programming language.

LOGARITHMIC IMAGE PROCESSING: THEORY AND APPLICATIONS

Academic Press Logarithmic Image Processing: Theory and Applications, the latest volume in the series that merges two long-running serials, Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy and features cutting-edge articles on recent developments in all areas of microscopy, digital image processing, and many related subjects in electron physics. Merges two long-running serials, Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy into a single volume Contains the latest information on logarithmic image processing and its theory and applications Features cutting-edge articles on recent developments in all areas of microscopy, digital image processing, and many related subjects in electron physics

CORPORATE TRANSFORMATION

Springer by Professor Alessandro Sinatra xi There are two categories which divide academic writing. The first category is made up of those which gather and systemize a developed thought, while the second is made up of those which detail a learning process which is presently occurring. This book belongs to the second category. It is intended to offer evidence of a still continuing research process which began three years ago. This reseach, undertaken simultaneously in Europe, the United States and Japan, has provided interesting evidence as to the conditions which must be present within a company in order to ensure continuous change. The object of our research has been to galvanize academics and managers into a debate which is especially relevant today: that of the ability of a company to anticipate or respond to changes which are occurring in its environment. Today more than ever, the ability to change culture and organizational structure are conditions which ensure a company's success, or more often, permit its survival. This book offers ten case studies about ten different large international firms, and about how they approached the problem of strategic change. In addition, there are ten articles which analyze the empirical evidence presented in the cases, and which try to provide and develop a general framework which can be used in a variety of situations. The cases represent an empirical base of reference. For the manager, they can serve as a source of benchmarking with the present situation of herlhis company.

INFORMATION TECHNOLOGY TODAY

Galgotia Publications

GUIDANCE ON THE BALANCED APPROACH TO AIRCRAFT NOISE MANAGEMENT

AERODROME DESIGN MANUAL

INTERNATIONAL RECOMMENDATIONS FOR COLOUR VISION REQUIREMENTS FOR TRANSPORT

This technical report prepared by CIE Technical Committee 4-31 of Division 4 "Lighting and Signalling for Transport" details the official CIE Recommendations for requirements of colour vision that are necessary to ensure safe and reliable recognition of coloured signal lights and other colour coded visual information devices. The aim of the report is to encourage international harmonisation in colour

vision requirements in maritime, air, rail and road transport, and the use of valid methods for the assessment of colour vision. The recommendations take into account the complexity of the colour codes used, the observation conditions likely to be encountered and the importance of colour recognition to safety in the various transport modes. The report summarises the studies that document the kind of difficulties experienced by persons with defective colour vision and the studies that show defective colour vision is a risk factor. The report defines three colour vision standards, (1) normal colour vision, (2) defective colour vision A where those with a mild colour vision deficiency can demonstrate their ability to see and recognise coloured signal lights, and (3) defective colour vision B where those with defective colour vision can demonstrate their ability to recognise surface colour codes at a short distance, such as those used on colour coded computer screens. The report also recommends test procedures for the assessment of colour vision. Detailed information on the recommended colour vision tests is given in an appendix.

THE HUMAN FACE OF COMPUTING

Gwasg y Bwthyn Computation is ubiquitous: modern life would be inconceivable without it.Written as a series of conversations with influential computer scientists, mathematicians and physicists, this book provides access to the inner thinking of those who have made essential contributions to the development of computing and its applications. You will learn about the interviewees' education, career path, influences, methods of work, how they cope with failure and success, how they relax, how they see the future, and much more.The conversations are presented in jargon-free language suitable for a general audience, but with enough technical detail for more specialized readers. The aim of the book is not only to inform and entertain, but also to motivate and stimulate.

PUMPING STATION DESIGN

Pumping Station Design, Second Edition shows how to apply the fundamentals of various disciplines and subjects to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes. In a field where inappropriate design can be extremely costly for any of the foregoing reasons, there is simply no excuse for not taking expert advice from this book. The content of this second edition has been thoroughly reviewed and approved by many qualified experts. The depth of experience and expertise of each contributor makes the second edition of Pumping Station Design an essential addition to the bookshelves of anyone in the field.

SIMULATION USING PRO MODEL

Simulation Using ProModel covers the art and science of simulation in general and the use of ProModel simulation software in particular. The text blends theory with practice. Actual applications in business, services and manufacturing and a hands-on approach to simulation, including real-world simulation projects, are emphasized. The third edition of Simulation Using ProModel reflects the most recent version of the ProModel software in all the examples and labs as well as expanded coverage on generating random variates and design of experiments. Additionally, the lead author is founder and Chief Technology Advisor for ProModel Corporation.