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Clinical Ocular Toxicology Springer Nature Covering a variety of Excel simulations by using Visual Basic (VBA), from gambling to genetics, this introduction is for people interested in modeling future events, without the cost of an expensive textbook. The simulations covered offer a fun alternative to the usual Excel topics and include situations such as roulette, password cracking, sex determination, population growth, and traffic patterns, among many others.

Understanding Virtual Reality Springer Science & Business Media A comprehensive political and design theory of planetary-scale computation proposing that The Stack—an accidental megastructure—is both a technological apparatus and a model for a new geopolitical architecture. What has planetary-scale computation done to our geopolitical realities? It takes different forms at different scales—from energy and mineral sourcing and subterranean cloud infrastructure to urban software and massive universal addressing systems; from interfaces drawn by the augmentation of the hand and eye to users identified by self—quantification and the arrival of legions of sensors, algorithms, and robots. Together, how do these distort and deform modern political geographies and produce new territories in their own image? In The Stack, Benjamin Bratton proposes that these different genres of computation—smart grids, cloud platforms, mobile apps, smart cities, the Internet of Things, automation—can be seen not as so many species evolving on their own, but as forming a coherent whole: an accidental megastructure called The Stack that is both a computational apparatus and a new governing architecture. We are inside The Stack and it is inside of us. In an account that is both theoretical and technical, drawing on political philosophy, architectural theory, and software studies, Bratton

explores six layers of The Stack: Earth, Cloud, City, Address, Interface, User. Each is mapped on its own terms and understood as a component within the larger whole built from hard and soft systems intermingling—not only computational forms but also social, human, and physical forces. This model, informed by the logic of the multilayered structure of protocol " stacks," in which network technologies operate within a modular and vertical order, offers a comprehensive image of our emerging infrastructure and a platform for its ongoing reinvention. The Stack is an interdisciplinary design brief for a new geopolitics that works with and for planetary-scale computation. Interweaving the continental, urban, and perceptual scales, it shows how we can better build, dwell within, communicate with, and govern our worlds. thestack.org

Product Lifecycle Management in the Digital Twin Era Morgan Kaufmann

This book shows that the problem of climate adaptation, which is described in social planning terms as ' wicked,' is at odds with the contemporary practice of spatial planning. The author proposes a new adjusted framework which is more adaptable to unpredictable, wicked, dynamic and non-linear processes. The inspiration for this new method is the behaviour of swarms: bees, ants, birds and fish are capable of self-organization, which enables the system to become less vulnerable to sudden environmental changes. The framework proposed in Swarm Planning consists of these four elements: Two levels of complexity, the first being the whole system and the second its individual components. Each of these has different attributes for adapting to change. Five layers, consisting of networks, focal points, unplanned space, natural resources and emerging occupation patterns. Each layer has its own spatial dynamic, and each is connected to a spatial scale. Non-linear processes, which emerge in different parts of the framework and include emerging patterns, connectedness and tipping points among others. Two planning processes; the first, ' from small to large' works upward from the slowest changing elements to more rapidly-changing ones. The second, ' on the list of partners' addresses each layer from networks through emerging occupation patterns. Swarm Planning applies this framework to a series of pilot studies, and appraises its performance using criteria for an adaptive landscape. The results show that the use of the Swarm Planning Framework reduces the vulnerability of landscapes

as well as the impact of climate hazards and disasters, improves response to unexpected hazards and contains adaptation strategies. " This book is a must for planners in government and the private sector as it outlines the concept, strategies and techniques for swarm planning. It is also an important guide for policymakers looking to engage communities in a dialogue about the adaptation planning process." Professor John Martin, La Trobe University " The ultimate value of the book lies in encouraging the planning community to consider options that go far beyond those offered by business-as-usual planning methodologies developed for a set of operating conditions that are fast becoming obsolete. As such it makes an important and much needed contribution to the field." Assistant Professor Dr. Chrisna du Plessis, University of Pretoria

Comprehensive Healthcare Simulation: Neurosurgery Society of Photo Optical

This book is a practical guide for the use of simulation in neurosurgery, with chapters covering high fidelity simulation, animal models simulation, cadaveric simulation, and virtual reality simulation. Readers are introduced to the different simulation modalities and technologies and are guided on the use of simulation for a variety of learners, including medical students, residents, practicing pediatricians, and health-related professionals. Comprehensive Healthcare Simulation: Neurosurgery is written and edited by leaders in the field and includes dozens of high-quality color surgical illustrations and photographs as well as videos. This book is part of the Comprehensive Healthcare Simulation Series which provides focused volumes on the use of simulation in a single specialty or on a specific simulation topic, and emphasizing practical considerations and guidance.

Samsung Galaxy Springer Science & Business Media The recent re-emergence of serious games as a branch of video games and as a promising frontier of education has introduced the concept of games designed for a serious purpose other than pure entertainment. To date the major applications of serious games include education and training,

engineering, medicine and healthcare, military applications, city planning, production, crisis response, to name just a few. If utilised alongside, or combined with conventional training and educational approaches, serious games could provide a more powerful means of knowledge transfer in almost every application domain. Serious Games and Edutainment Applications offers an insightful introduction to the development and applications of games technologies in educational settings. It includes cutting-edge academic research and industry updates that will inform readers of current and future advances in the area. The book is suitable for both researchers and educators who are interested in using games for educational purposes, as well as game professionals requiring a thorough understanding of issues involved in the application of video games technology into educational settings. It is also applicable to programmers, game artists, and management contemplating or involved in the development of serious games for educational or training purposes.

Helen of the Old House Saunders

"Supply Chain Risk Management is an issue that many companies face and yet few companies know how to deal with it in a systematic and pragmatic manner. While avoiding and reducing supply chain risks are certainly preferable, developing ways to restore and stabilize supply chain operations rapidly after a major disruption is critical for managing global supply chains. Sodhi and Tang present important concepts, frameworks, strategies, and analyses that are essential for managing supply chain risks. Not only does this book suggest some practical ways to work with different partners to manage the risks that are present in a global supply chain, it creates a framework that would enable practitioners to engage researchers to work on this important area." —Thomas A. Debrowski, Executive Vice President, Worldwide Operations, Mattel, Inc. "When a firm outsources its operations to external suppliers, the firm is vulnerable to major and rare disruptions that can occur at any link in the global supply chain. Because these disruptions rarely occur, few firms take commensurable actions to identify, assess, mitigate and respond to various types of supply chain risks. By introducing frameworks and concepts along with several case studies and a review of academic literature, Sodhi and Tang treat this important subject with practical relevance and academic rigor. This book will bring practitioners and researchers to develop effective and efficient ways to manage supply chain risks." —Marshall L. Fisher, UPS Professor, Professor of Operations and Information Management and Co-Director of Fishman-Davidson Center for Service and Operations Management, The Wharton School, University of Pennsylvania "This book ties observations in practice to methodologies and research. The rich case examples motivated the approaches and methodologies used to mitigate risks, and in the course of doing so, Sodhi and Tang provided insights on existing and new research opportunities. As a result, this book is highly relevant to both practitioners and academics. Also, the book is also written with management lessons on how risks can be mitigated, and how risks can be contained once disruptions have occurred. As such, it is also a book for management to gain insights and to develop management skills." —Hau L. Lee, Thoma Professor of Operations, Information and Technology and

Director of the Stanford Global Supply Chain Management Forum, Graduate School of Business, Stanford University "As companies have extended their supply chains globally and as the face increasing resource issues, they face a number of new risk challenges. While there are various case studies written about supply chain risks, this book gives a comprehensive treatment of the subject with clarity. The concepts and frameworks developed by Sodhi and Tang in this book would create awareness of this important and yet not well understood subject, and strategies described in this book would stimulate practitioners to develop a holistic approach for identifying, assessing, mitigating, and responding to different types of supply chain risks." —Nick Wildgoose, Global Supply Chain Proposition Manager, Zurich Insurance?

Historical Painting Techniques, Materials, and Studio Practice Duxbury Resource Center

This book presents selected, high-quality research papers from the International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT Yupia, Arunachal Pradesh, India, on 2 – 4 March 2020. Discussing the latest challenges and solutions in the field of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product development.

Samsung Galaxy Springer

This two-volume set, CCIS 0269-CCIS 0270, constitutes the refereed post-conference proceedings of the International Conference on Global Trends in Computing and Communication, ObCom 2011, held in Vellore, India, in December 2011. The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions. The conference addresses all current issues associated with computing, communication and information. The proceedings consists of invited papers dealing with the review of performance models of computer and communication systems and contributed papers that feature topics such as networking, cloud computing, fuzzy logic, mobile communication, image processing, navigation systems, biometrics and Web services covering literally all the vital areas of the computing domains.

Serious Games and Edutainment Applications Springer Science & Business Media

Samsung Galaxy John Wiley & Sons

Written by international authorities in ocular toxicology, including the Founder of The National Registry of Drug-Induced Side Effects and its current Director, this essential resource provides the clinically relevant information you need to effectively diagnose and manage herbal, chemical, and drug-related ocular problems. Comprehensive coverage of all drugs' generic and trade drug names, primary uses, ocular and systemic side effects, and clinical significance make this book - like its best-selling predecessor, Drug-Induced Ocular Side Effects - the ideal reference for quick, on-the-spot consultation. Leaders in the field provide need-to-know information on all aspects of ocular toxicology-all in one concise reference. Data from the National Registry of Drug Induced Ocular Side-Effects (Casey Eye Institute, Portland, OR) and the World Health Organization (Uppsala, Sweden) help you recognize and avoid drug-induced ocular side effects. A highly templated format makes retrieval of essential knowledge quick and easy. A wealth of full-color photographs provide vivid, visual diagnostic guidance. The latest information on approved medications helps you stay up to date and provide state-of-the-art care. Extensive coverage of principles of therapy, ocular drug delivery, methods to evaluate drug-induced visual side effects, and the role of electrophysiology and psychophysics gives you the knowledge you need to manage any challenge in ocular toxicology Authoritative guidance on ocular drugs and their use in pregnancy helps you safely manage the unique needs of these patients. The inclusion of the WHO classification system helps you determine whether a particular side effect is certain, probable, or likely to occur.

Advances in Human Factors and Systems Interaction Springer

Adhesion is among the oldest technologies known to mankind, but the technology of adhesives began to boom with the developments in chemistry in the early 1900s. The last few years have seen tremendous progress in the performance of adhesives, allowing two pieces to be connected inseparably. Modern adhesives perform so well that more sophisticated joining methods, e.g. welding, can often

be replaced by adhesion, meaning that adhesives have found new areas of application. This book allows readers to quickly gain an overview of the adhesives available and to select the best adhesive for each purpose.

Metrology, Inspection, and Process Control for Microlithography XI IOP Publishing Limited
Understanding Virtual Reality: Interface, Application, and Design, Second Edition arrives at a time when the technologies behind virtual reality have advanced dramatically. The book helps users take advantage of the ways they can identify and prepare for the applications of VR in their field. By approaching VR as a communications medium, the authors have created a resource that will remain relevant even as underlying technologies evolve. Included are a history of VR, systems currently in use, the application of VR, and the many issues that arise in application design and implementation, including hardware requirements, system integration, interaction techniques and usability. - Features substantive, illuminating coverage designed for technical or business readers and the classroom - Examines VR's constituent technologies, drawn from visualization, representation, graphics, human-computer interaction and other fields - Provides (via a companion website) additional case studies, tutorials, instructional materials, and a link to an open-source VR programming system - Includes updated perception material and new sections on game engines, optical tracking, VR visual interface software, and a new glossary with pictures

Introduction to Probability and Statistics MIT Press
I have physical scars from past surgeries, however, I have emotional scars as well. They were buried deep inside (hidden). It wasn't until my mother died was I able to "catch my breath" and to make sense of or process the emotional pain I had endured due to her prescription drug addiction, resulting in my own addictions.

Cellular Automata Springer Science & Business Media
This book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It includes original research presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2019), organized by the Department of ECE, Raghu Institute of Technology, Andhra Pradesh, India. Written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes around the globe, the papers share the latest

breakthroughs in and promising solutions to the most important issues facing today's society.

Scars, Marks & Tattoos Springer
This book constitutes the proceedings of the 13th International Conference on Cellular Automata for Research and Industry, ACRI 2018, held in Como, Italy, in September 2018. The 47 full papers presented in this volume were carefully reviewed and selected from 64 submissions. This volume contains invited contributions and accepted papers from the main track and from the three organized workshops. The volume is organized in the following topics: biological systems modeling; simulation and other applications of CA; multi-agent systems; pedestrian and traffic dynamics; synchronization and control; theory and cryptography; asynchronous cellular automata; and crowds, traffic and cellular automata.

Electronic Systems and Intelligent Computing Springer Science & Business Media
The all-new edition of America's Test Kitchen's best-selling family cookbook with more than 1,000 new recipes.

Swarm Planning Springer Nature
There is no doubt that today, perhaps more than ever before, humanity faces a myriad of complex and demanding challenges. These include natural resource depletion and environmental degradation, food and water insecurity, energy shortages, diminishing biodiversity, increasing losses from natural disasters, and climate change with its associated potentially devastating consequences, such as rising sea levels. These human-induced and natural impacts on the environment need to be well understood in order to develop informed policies, decisions, and remedial measures to mitigate current and future negative impacts. To achieve this, continuous monitoring and management of the environment to acquire data that can be soundly and rigorously analyzed to provide information about its current state and changing patterns, and thereby allow predictions of possible future impacts, are essential. Developing pragmatic and sustainable solutions to address these and many other similar challenges requires the use of geodata and the application of geoinformatics. This book presents the concepts and applications of geoinformatics, a multidisciplinary field that has at its core different technologies that support the acquisition, analysis and visualization of geodata for environmental monitoring and management. We depart from the 4D to the 5D data paradigm, which defines geodata accurately, consistently, rapidly and completely, in order to be useful without any restrictions in space, time or scale to represent a truly global dimension of the digital Earth. The book also

features the state-of-the-art discussion of Web-GIS. The concepts and applications of geoinformatics presented in this book will be of benefit to decision-makers across a wide range of fields, including those at environmental agencies, in the emergency services, public health and epidemiology, crime mapping, environmental management agencies, tourist industry, market analysis and e-commerce, or mineral exploration, among many others. The title and subtitle of this textbook convey a distinct message. Monitoring -the passive part in the subtitle - refers to observation and data acquisition, whereas management - the active component - stands for operation and performance. The topic is our environment, which is intimately related to geoinformatics. The overall message is: all the mentioned elements do interact and must not be separated. Hans-Peter B ahr, Prof. Dr.-Ing. Dr.h.c., Karlsruhe Institute of Technology (KIT), Germany.

Sonic Interaction Design Wentworth Press
An overview of emerging topics, theories, methods, and practices in sonic interactive design, with a focus on the multisensory aspects of sonic experience. Sound is an integral part of every user experience but a neglected medium in design disciplines. Design of an artifact's sonic qualities is often limited to the shaping of functional, representational, and signaling roles of sound. The interdisciplinary field of sonic interaction design (SID) challenges these prevalent approaches by considering sound as an active medium that can enable novel sensory and social experiences through interactive technologies. This book offers an overview of the emerging SID research, discussing theories, methods, and practices, with a focus on the multisensory aspects of sonic experience. Sonic Interaction Design gathers contributions from scholars, artists, and designers working at the intersections of fields ranging from electronic music to cognitive science. They offer both theoretical considerations of key themes and case studies of products and systems created for such contexts as mobile music, sensorimotor learning, rehabilitation, and gaming. The goal is not only to extend the existing research and pedagogical approaches to SID but also to foster domains of practice for sound designers, architects, interaction designers, media artists, product designers, and urban planners. Taken together, the chapters provide a foundation for a still-emerging field, affording a new generation of designers a fresh perspective on interactive sound as a situated and multisensory experience. Contributors Federico Avanzini, Gerold Baier, Stephen Barrass, Olivier Bau, Karin Bijsterveld, Roberto Bresin, Stephen Brewster, Jeremy Coopersotck, Amalia De Gotzen, Stefano Delle Monache, Cumhur Erkut, George Essl, Karmen Franinovi?, Bruno L. Giordano, Antti Jylhä, Thomas Hermann, Daniel Hug, Johan Kildal, Stefan Krebs, Anatole Lecuyer,

Wendy Mackay, David Merrill, Roderick Murray-Smith, Sile O'Modhrain, Pietro Polotti, Hayes Raffle, Michal Rinott, Davide Rocchesso, Antonio Rodà, Christopher Salter, Zack Settel, Stefania Serafin, Simone Spagnol, Jean Sreng, Patrick Susini, Atau Tanaka, Yon Visell, Mike Wezniewski, John Williamson

FLOWMAP: MICROFLUIDICS ROADMAP FOR THE LIFE SCIENCES. Springer

This classic text, focuses on statistical inference as the objective of statistics, emphasizes inference making, and features a highly polished and meticulous execution, with outstanding exercises. This revision introduces a range of modern ideas, while preserving the overall classical framework..

Samsung Galaxy Springer Nature

Discover the exciting future of sports in the digital age with "21st Century Sports: How Technologies Will Change Sports in the Digital Age." This thought-provoking book, now in its second edition, delves into the transformative power of technology on the world of sports within the next five to ten years and beyond. Written by esteemed academics from prestigious institutions like the Massachusetts Institute of Technology, Queensland University of Technology, and the University of Cambridge, alongside seasoned practitioners with extensive technological expertise, this collection of essays offers profound insights. Through their comprehensive analysis, the authors explore the profound impacts of emerging technologies such as artificial intelligence, the Internet of Things, blockchain, web3 and robotics on sports. Uncover how these technologies will revolutionize not only the nature of sports itself but also consumer behavior and existing business models. Athletes, entrepreneurs, and innovators working in the sports and other industries will find invaluable guidance to identify trendsetting technologies, gain deeper insights into their implications, and stay ahead of the competition, both on and off the field. In this new edition, a special focus is given to technology convergence, featuring chapters on the future of fandom, sports in the third connected age and in new digital worlds like the Metaverse. This book is your gateway to the dynamic world where technology and sports intersect, offering a compelling vision of what lies ahead.