Midas Gen 2015 Tutorial

The Color Atlas of Veterinary Anatomy volume 2 presents a unique photographic record of dissections showing the topographical anatomy of the horse. With this book you will be able to see the position and relationships of the bones, muscles, nerves, blood vessels and viscera that go to make up each region of the body and each organ system. Each book in this 3 volume series is packed with full-color photographs and drawings of dissections prepared specifically for these texts. Key features Accessibly and systematically structured with each chapter devoted to a specific body region Important features of regional and topographical anatomy presented using full color photos of detailed dissections Dissections presented in the standing position Detailed color line drawings clarify the relationships of relevant structures Presents anatomy in a clinical context This new edition second edition offers important new features, including: Accompanying website presents over 100 interactive quizzes and self-assessment questions Many more radiographs throughout Additional CT and MRI images Clinical notes highlight areas of particular clinical significance
This report presents formal guidelines for the use of second-order inelastic analysis in the design and assessment of steel framing systems.

This book describes the use of free air cooling to improve the efficiency of, and cooling of, equipment for use in telecom infrastructures. Discussed at length is the cooling of communication installation rooms such as data centers or base stations, and this is intended as a valuable tool for the people designing and manufacturing key parts of communication networks. This book provides an introduction to current cooling methods used for energy reduction, and also compares present cooling methods in use in the field. The qualification methods and standard reliability assessments are reviewed, and their inability to assess the risks of free air cooling is discussed. The method of identifying the risks associated with free air cooling on equipment performance and reliability is introduced. A novel method of assessment for free air cooling is also proposed that utilizes prognostics and health management (PHM). This book also: Describes how the implementation of free air cooling can save energy for cooling within the telecommunications infrastructure. Analyzes the potential risks and failures of mechanisms possible in the implementation of free air cooling, which benefits manufacturers and equipment designers. Presents prognostics-based assessments to identify and mitigate the risks of telecommunications equipment under free air cooling conditions, which can provide the early warning of equipment failures

at operation stage without disturbing the data centers' service. Optimum Cooling for Data Centers is an ideal book for researchers and engineers interested in designing and manufacturing equipment for use in telecom infrastructures. Norbert Delatte presents the circumstances of important failures that have had far-reaching impacts on civil engineering practice, organized around topics in the engineering curriculum. The Proceedings of the NATO Advanced Study Institute on Analysis and Design of Bridges held at ~e§me, lzmir, Turkey from 28 June 1982 to 9 July 1982 are contained in the present volume. The Advanced Study Institute was attended by 37 lecturers and participants from 10 different countries. The Organizing Committee consisted of Professors P. Gtilkan, A. C. Scordelis, S. T. Wasti and 9. Yl. lmaz. The guidelines set by NATO for the Advanced Study Institute require it to serve not only as an efficient forum for the dissemination of available advanced knowledge to a selected group of qualified people but also as a platform for the exploration of future research possibilities in the scientific or engineering areas concerned. The main topics covered by the present Advanced Study Institute were the mathematical modelling of bridges for better analysis and the scientific assessment of bridge behaviour for the introduction of improved design procedures. It has been our observation that

as a result of the range and depth of the lectures presented and the many informal discussions that took place, ideas became fissile, the stimulus never flagged and many gaps in the engineering knowledge of the participants were "bridged". Here we particularly wish to mention that valuable informal presenta tions of research work were made during the course of the Institute by Drs. Friedrich, Karaesmen, Lamas and Parker.

BIM HandbookA Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility ManagersJohn Wiley & Sons

This book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. Meta-analysis has become a critically important tool in fields as diverse as medicine, pharmacology, epidemiology, education, psychology, business, and ecology. Introduction to Meta-Analysis: Outlines the role of meta-analysis in the research process Shows how to compute effects sizes and treatment effects Explains the fixed-effect and random-effects models for synthesizing data Demonstrates how to assess and interpret variation in effect size across studies Clarifies concepts using text and figures, followed by formulas and examples Explains how to avoid common mistakes in meta-analysis Discusses controversies in meta-analysis Features a web site

with additional material and exercises A superb combination of lucid prose and informative graphics, written by four of the world's leading experts on all aspects of meta-analysis. Borenstein, Hedges, Higgins, and Rothstein provide a refreshing departure from cookbook approaches with their clear explanations of the what and why of meta-analysis. The book is ideal as a course textbook or for self-study. My students, who used pre-publication versions of some of the chapters, raved about the clarity of the explanations and examples. David Rindskopf, Distinguished Professor of Educational Psychology, City University of New York, Graduate School and University Center, & Editor of the Journal of Educational and Behavioral Statistics. The approach taken by Introduction to Meta-analysis is intended to be primarily conceptual, and it is amazingly successful at achieving that goal. The reader can comfortably skip the formulas and still understand their application and underlying motivation. For the more statistically sophisticated reader, the relevant formulas and worked examples provide a superb practical guide to performing a meta-analysis. The book provides an eclectic mix of examples from education, social science, biomedical studies, and even ecology. For anyone considering leading a course in meta-analysis, or pursuing self-directed study, Introduction to Meta-analysis would be a clear first choice. Jesse A. Berlin, ScD

Introduction to Meta-Analysis is an excellent resource for novices and experts alike. The book provides a clear and comprehensive presentation of all basic and most advanced approaches to meta-analysis. This book will be referenced for decades. Michael A. McDaniel, Professor of Human Resources and Organizational Behavior, Virginia Commonwealth University Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM

practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Covers seismic design for typical bridge types and applies to non-critical and non-essential bridges. Approved as an alternate to the seismic provisions in the AASHTO LRFD Bridge Design Specifications. Differs from the current procedures in the LRFD Specifications in the use of displacement-based design procedures, instead of the traditional force-based "R-Factor" method. Includes detailed guidance and commentary on earthquake resisting elements and systems, global design strategies, demand modeling, capacity calculation, and liquefaction effects. Capacity design procedures underpin the Guide Specifications' methodology; includes prescriptive detailing for plastic hinging regions and design requirements for capacity protection of those elements that should not experience damage.

First Published in 1999: The Bridge Engineering Handbook is a unique, comprehensive, and state-of-the-art reference work and resource book covering the major areas of bridge engineering with the theme "bridge to the 21st century." This book is designed to provide the reader with comprehension of the principles of contemporary surgical education and skills to design and implement effective

curricula that include learning theory, needs assessments, curriculum development, effective teaching methods, valid and reliable assessment of learners, and comprehensive program evaluation. This text will provide a comprehensive, state-of-the art review of this field and will serve as a valuable resource for anyone wishing to become a better educator regardless of the level of the trainee. The book will review how people learn and how to vary teaching methods accordingly. It will cover curriculum planning, measurement and performance assessment, teaching residents to teach, coaching, promoting professionalism, teaching surgeons to lead, and burnout. It will aid in identifying differences in generations and how to select students and residents who will thrive in your program. Specifics on teaching in the operating room, use of new technologies and honing of feedback skills will be addressed. The effect of duty hours and due process for struggling learners will also be addressed as well as preparing residents for beyond residency. Specifics on how to set up simulation centers and utilize this technology will also be discussed. These are a few of the topics which will prepare the reader to excel in education and thus be able to positively influence patient care well beyond that of any one individual.
This book constitutes the proceedings of the 6th International Workshop on Machine Learning in Medical Imaging, MLMI 2015, held in conjunction with MICCAI 2015, in Munich in October 2015. The 40 full papers presented in this volume were carefully reviewed and selected from 69 submissions. The workshop focuses on major trends and challenges in the area of machine learning in medical imaging and present works aimed to identify new cutting-edge techniques and their use in medical imaging.
Designed as a stopgap measure to provide overhead reconnaissance capability during the early years of the Cold

War, the versatile U-2 has since evolved to meet changing requirements well into the 21st century. Though many authors have documented the airplane's operational history, few have made more than a cursory examination of its technical aspects or its role as a NASA research platform. This volume includes an overview of the origin and development of the Lockheed U-2 family of aircraft with early National Advisory Committee for Aeronautics (NACA) and National Aeronautics and Space Administration (NASA) involvement, construction and materials challenges faced by designers and builders, releasable performance characteristics and capabilities, use of U-2 and ER-2 airplanes as research platforms, and technical and programmatic lessons learned.

This book provides extensive research into the use of augmented reality in the three interconnected and overlapping fields of the tourism industry, museum exhibitions, and cultural heritage. It is written by a virtual team of 50 leading researchers and practitioners from 16 countries around the world. The authors explore the opportunities and challenges of augmented reality applications, their current status and future trends, informal learning and heritage preservation, mixed reality environments and immersive installations, cultural heritage education and tourism promotion, visitors with special needs, and emerging post-COVID-19 museums and heritage sites. Augmented Reality in Tourism, Museums and Heritage: A New Technology to Inform and Entertain is essential reading not only for researchers, application developers, educators, museum curators, tourism and cultural heritage promoters, but also for students (both graduates and undergraduates) and anyone who is interested in the efficient and practical use of augmented reality technology.

Over the past twenty years, the knowledge and understanding of wastewater treatment has advanced

extensively and moved away from empirically based approaches to a fundamentally-based first principles approach embracing chemistry, microbiology, and physical and bioprocess engineering, often involving experimental laboratory work and techniques. Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice. For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available. In addition, information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines. This book seeks to address these deficiencies. It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world. Experimental Methods in Wastewater Treatment forms part of the internet-based curriculum in wastewater treatment at UNESCO-IHE and, as such, may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do. The book is written for undergraduate and postgraduate students, researchers, laboratory staff, plant operators, consultants, and other sector professionals.

This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics. The book features an array of subjects that include: smart cities and infrastructure, e-healthcare, emergency and disaster management, Internet of Vehicles, supply chain management, eGovernance, and high

performance computing. The book is divided into five parts: Smart Transportation, Smart Healthcare, Miscellaneous Applications, Big Data and High Performance Computing, and Internet of Things (IoT). Contributions are from academics, researchers, and industry professionals around the world. Features a broad mix of topics related to smart infrastructure and smart applications, particularly high performance computing, big data, and artificial intelligence; Includes a strong emphasis on methodological aspects of infrastructure, technology and application development; Presents a substantial overview of research and development on key economic sectors including healthcare and transportation. This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers. Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume

includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field. Software Defined Radio makes wireless communications easier, more efficient, and more reliable. This book bridges the gap between academic research and practical implementation. When beginning a project, practicing engineers, technical managers, and graduate students can save countless hours by considering the concepts presented in these pages. The author covers the myriad options and trade-offs available when selecting an appropriate hardware architecture. As demonstrated here, the choice between hardware- and software-centric architecture can mean the difference between meeting an aggressive schedule and bogging down in endless design iterations. Because of the author's experience overseeing dozens of failed and successful developments, he is able to present many real-life examples. Some of the key concepts covered are: Choosing the right architecture for the market – laboratory, military, or commercial, Hardware platforms – FPGAs, GPPs, specialized and hybrid devices, Standardization efforts to ensure interoperability and portabilitym State-of-the-art components for radio

frequency, mixed-signal, and baseband processing. The text requires only minimal knowledge of wireless communications; whenever possible, qualitative arguments are used instead of equations. An appendix provides a quick overview of wireless communications and introduces most of the concepts the readers will need to take advantage of the material. An essential introduction to SDR, this book is sure to be an invaluable addition to any technical bookshelf. This book presents original contributions on the theories and practices of emerging Internet, Data and Web technologies and their applications in businesses, engineering and academia. As a key feature, it addresses advances in the life-cycle exploitation of data generated by digital ecosystem technologies. The Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, Data and Web technologies are two of the most prominent paradigms, manifesting in a variety of forms such as Data Centers, Cloud Computing, Mobile Cloud, Mobile Web Services, and so on. These technologies altogether create a digital ecosystem whose cornerstone is the data cycle, from capturing to processing, analysis and visualization. The need to investigate various research and development issues in this digital ecosystem has been made even more pressing by the ever-increasing demands of real-life applications, which are based on storing and processing large amounts of data. Given its scope, the book offers a valuable asset for all researchers, software developers, practitioners and students interested in the field of Data and Web

technologies.

Essential Bioinformatics is a concise yet comprehensive textbook of bioinformatics, which provides a broad introduction to the entire field. Written specifically for a life science audience, the basics of bioinformatics are explained, followed by discussions of the state-of-the-art computational tools available to solve biological research problems. All key areas of bioinformatics are covered including biological databases, sequence alignment, genes and promoter prediction, molecular phylogenetics, structural bioinformatics, genomics and proteomics. The book emphasizes how computational methods work and compares the strengths and weaknesses of different methods. This balanced yet easily accessible text will be invaluable to students who do not have sophisticated computational backgrounds. Technical details of computational algorithms are explained with a minimum use of mathematical formulae; graphical illustrations are used in their place to aid understanding. The effective synthesis of existing literature as well as in-depth and up-to-date coverage of all key topics in bioinformatics make this an ideal textbook for all bioinformatics courses taken by life science students and for researchers wishing to develop their knowledge of bioinformatics to facilitate their own research.

Solve these fiendishly fun escape room puzzles without leaving your house! Escape rooms have become a popular group activity in cities across the world, with more than 8,000 venues in existence today. In Escape Room Puzzles, you can play the escape room games from the comfort of your chair, honing your mental skills

in the process. Each of the puzzles in this book includes three different levels of difficulty, allowing first-timers and veterans alike to partake in the fun. Use your logical reasoning, mathematics, and observation skills to solve the puzzles and break out of the rooms!

The Hash Crack: Password Cracking Manual v3 is an expanded reference guide for password recovery (cracking) methods, tools, and analysis techniques. A compilation of basic and advanced techniques to assist penetration testers and network security professionals evaluate their organization's posture. The Hash Crack manual contains syntax and examples for the most popular cracking and analysis tools and will save you hours of research looking up tool usage. It also includes basic cracking knowledge and methodologies every security professional should know when dealing with password attack capabilities. Hash Crack contains all the tables, commands, online resources, and more to complete your cracking security kit. This version expands on techniques to extract hashes from a myriad of operating systems, devices, data, files, and images. Lastly, it contains updated tool usage and syntax for the most popular cracking tools.

Presents revised and edited papers from a October 2010 conference held in Taipei on the Chinese Air Force. The conference was jointly organized by Taiwan?s Council for Advanced Policy Studies, the Carnegie Endowment for International Peace, the U.S. National Defense University, and the RAND Corporation. This books offers a complete picture of where the Chinese air force is today, where it has come from, and most importantly,

where it is headed.
This book describes issues in modeling unconventional
conflict and suggests a new way to do the modeling. It
presents an ontology that describes the unconventional
conflict domain, which allows for greater ease in modeling
unconventional conflict. Supporting holistic modeling, which
means that we can see the entire picture of what needs to be
modeled, the ontology allows us to make informed decisions
about what to model and what to omit. The unconventional
conflict ontology also separates the things we understand
best from the things we understand least. This separation
means that we can perform verification, validation and
accreditation (VV&A) more efficiently and can describe the
competence of the model more accurately. However, before
this message can be presented in its entirety the supporting
body of knowledge has to be explored. For this reason, the
book offers chapters that focus on the description of
unconventional conflict and the analyses that have been
performed, modeling, with a concentration on past efforts at
modeling unconventional conflict, the precursors to the
ontology, and VV&A. Unconventional conflict is a complex,
messy thing. It normally involves multiple actors, with their
own conflicting agendas and differing concepts of legitimate
actions. This book will present a useful introduction for
researchers and professionals within the field.
The NUMGE98 Conference brought together senior and
young researchers, scientists and practicing engineers from
European and overseas countries, to share their knowledge
and experience on the various aspects of the analysis of
Geotechnical Problems through Numerical Methods. The
papers address a broad spectrum of geotechnical problems,
including tunnels and underground openings, shallow and
deep foundations, slope stability, seepage and consolidation,

partially saturated soils, geothermal effects, constitutive modelling, etc.

This book constitutes the proceedings of the Workshop on Shape in Medical Imaging, ShapeMI 2018, held in conjunction with the 21st International Conference on Medical Image Computing, MICCAI 2018, in Granada, Spain, in September 2018. The 26 full papers and 2 short papers presented were carefully reviewed and selected for inclusion in this volume. The papers discuss novel approaches and applications in shape and geometry processing and their use in research and clinical studies and explore novel, cutting-edge theoretical methods and their usefulness for medical applications, e.g., from the fields of geometric learning or spectral shape analysis.

The tenth-anniversary edition of the book that changed lives in profound ways, now with a new foreword and afterword. In 2006, a groundbreaking feature-length film revealed the great mystery of the universe—The Secret—and, later that year, Rhonda Byrne followed with a book that became a worldwide bestseller. Fragments of a Great Secret have been found in the oral traditions, in literature, in religions and philosophies throughout the centuries. For the first time, all the pieces of The Secret come together in an incredible revelation that will be life-transforming for all who experience it. In this book, you'll learn how to use The Secret in every aspect of your life—money, health, relationships, happiness, and in every interaction you have in the world. You'll begin to understand the hidden, untapped power that's within you, and this revelation can bring joy to every aspect of your life. The Secret contains wisdom from modern-day teachers—men and women who have used it to achieve health, wealth, and happiness. By applying the knowledge of The Secret, they bring to light compelling stories of eradicating disease, acquiring massive wealth, overcoming obstacles, and

achieving what many would regard as impossible.
An introduction to marketing concepts, strategies and
practices with a balance of depth of coverage and ease of
learning. Principles of Marketing keeps pace with a rapidly
changing field, focussing on the ways brands create and
capture consumer value. Practical content and linkage are at
the heart of this edition. Real local and international examples
bring ideas to life and new feature 'linking the concepts' helps
students test and consolidate understanding as they go. The
latest edition enhances understanding with a unique learning
design including revised, integrative concept maps at the start
of each chapter, end-of-chapter features summarising ideas
and themes, a mix of mini and major case studies to
illuminate concepts, and critical thinking exercises for
applying skills.
MARKETING STRATEGY, 6e, International Edition edition
emphasizes teaching students to think and act like marketers.
It presents strategy from a perspective that guides strategic
marketing management in the social, economic, and
technological arenas in which businesses function
today--helping students develop a customer-oriented market
strategy and market plan. Its practical approach to analyzing,
planning, and implementing marketing strategies is based on
the creative process involved in applying marketing concepts
to the development and implementation of marketing
strategy. An emphasis on critical thinking enables students to
understand the essence of how marketing decisions fit
together to create a coherent strategy. Well-grounded in
developing and executing a marketing plan, the text offers a
complete planning framework, thorough marketing plan
worksheets, and a comprehensive marketing plan example
for students to follow.
This volume provides a state-of-the-art summary of the
emerging field of sonic seasoning research, whereby

music/soundscapes are specifically chosen, or else designed/composed, in order to correspond crossmodally to, and hence potentially modify, the associated taste/flavour of food and beverages.

This book was written to make the material presented in my book, Stahlbetonbrucken, accessible to a larger number of engineers throughout the world. A work in English, the logical choice for this task, had been contemplated as Stahlbetonbrucken was still in its earliest stages of preparation. The early success of Stahlbetonbrucken provided significant impetus for the writing of Prestressed Concrete Bridges, which began soon after the publication of its predecessor. The present work is more than a mere translation of Stahlbetonbrucken. Errors in Stahlbetonbrucken that were detected after publication have been corrected. New material on the relation between cracking in concrete and corrosion of reinforce ment, prestressing with unbonded tendons, skew-girder bridges, and cable-stayed bridges has been added. Most importantly, however, the presentation of the material has been extensively reworked to improve clarity and consistency. Prestressed Concrete Bridges can thus be regarded as a thoroughly new and improved edition of its predecessor.

Maude is a language and system based on rewriting logic. In this comprehensive account, you'll discover how Maude and its formal tool environment can be used in three mutually reinforcing ways: as a declarative programming language, as an executable formal specification language, and as a formal verification system. Examples used throughout the book illustrate key concepts, features, and the many practical uses of Maude.

Hydrometry presents a thorough introduction to the science of hydrometry: the measurement of flow in open channels. Dealing with both traditional techniques and innovative new

methods and instruments, in line with the latest ISO standards, this book deals with the main themes of hydrometry: the measurement of water levels and bed levels, of discharge, and of sediment transport; it considers the use of flow measuring structures, hydrological networks, and the organization of surveys. Dr Boiten has extensive experience of teaching students from many countries and backgrounds, and has distilled this experience into a clear and comprehensive account of hydrology and water resource management. Hydrometry will appeal to graduate students and to professionals engaged in hydrology and the management of water resources.

Examines structural aspects of high rise buildings, particularly fundamental approaches to the analysis of the behavior of different forms of building structures including frame, shear wall, tubular, core and outrigger-braced systems. Introductory chapters discuss the forces to which the structure is subjected, design criteria which are of the greatest relevance to tall buildings, and various structural forms which have developed over the years since the first skyscrapers were built at the turn of the century. A major chapter is devoted to the modeling of real structures for both preliminary and final analyses. Considerable attention is devoted to the assessment of the stability of the structure, and the significance of creep and shrinkage is discussed. A final chapter is devoted to the dynamic response of structures subjected to wind and earthquake forces. Includes both accurate computer-based and approximate methods of analysis.

The Psychophysiology Primer provides a foundational review of the field of psychophysiology to serve as a primer for the novice, enabling rapid familiarisation with the core concepts, or as a quick reference resource for advanced readers.