

Automatic Sketchup Creating 3 D Models In Ruby

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Mobile Technologies and Augmented Reality in Open Education - Kurubacak, Gulsun 2017-02-22

Novel trends and innovations have enhanced contemporary educational environments. When applied properly, these computing advances can create enriched learning opportunities for

students. Mobile Technologies and Augmented Reality in Open Education is a pivotal reference source for the latest academic research on the integration of interactive technology and mobile applications in online and distance learning environments. Highlighting scholarly perspectives across numerous topics such as

wearable technology, instructional design, and flipped learning, this book is ideal for educators, professionals, practitioners, academics, and graduate students interested in the role of augmented reality in modern educational contexts.

Technological Developments in Education and Automation - Magued Iskander 2010-01-30
Technological Developments in Education and Automation includes set of rigorously reviewed world-class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation
Technological Developments in Education and Automation contains papers presented at the International Conference on Industrial Electronics, Technology & Automation and the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning which were part of the International Joint Conferences on Computer, Information and Systems Sciences

and Engineering

Google Power Tools Bible - Ted Coombs
2008-02-11

Get the most thorough and comprehensive guide to Google. Expand your world with the dozens of Google tools, applications, and services you'll find in this comprehensive book. Going well beyond the basics of search, this in-depth resource shows you how to access and apply every one of Google's features -- things like Gmail, Google Maps, and SketchUp -- while also explaining how to program Google, become a Froogle merchant, and much more. With thorough coverage, step-by-step instructions, and hundreds of tips and workarounds, you'll find what you need to succeed with Google. Review the basics of keywords, queries, and PageRank technology. Delve into search features such as the I'm Feeling Lucky button. Find your way with Google Maps and mobile GMaps. Check financial news, get quotes, and manage your portfolio. Import, view, and fix photos with

Picasa. Google-ize your computer with Google gadgets and plug-ins. Use Google Analytics to evaluate Web site traffic. Explore Google's future with a sneak peak at R&D.

BIM Development and Trends in Developing Countries: Case Studies - John Rogers, Heap-Yih Chong, Christopher Preece, Chai Chai Lim and Himal Suranga Jayasena 2015-03-06

Building Information Modeling (BIM), or the process of generating and managing digital information about physical representations of constructions, has been effectively adopted and benefited numerous civil engineering projects across the globe, particularly in developed countries. BIM Development and Trends in Developing Countries addresses the philosophies and practices for improved application of BIM in developing countries. Two case studies are presented in this reference: one from Malaysia and another representing Sri Lanka. Readers are given an introduction and background of the Malaysian and Sri Lankan construction industry

and a critical review of BIM's philosophies, development and applications in different stages of a construction project. The authors present their recommendations on the way forward for BIM practices articulated from the two perspectives, namely, academia and industrial BIM practice. The case studies in this book highlight the role of adequate BIM software techniques and the importance of governmental support in facing building challenges at the moment. . BIM Development and Trends in Developing Countries provides readers useful insights on the evolution of BIM practice in emerging countries and is a unique report on two specific scenarios in BIM development. Engineers, architects, urban planners and policy makers around the globe seeking to understand practical BIM implementation and trends will find this reference invaluable.

Residential Design, Drafting, and Detailing -

Alan Jefferis 2013-04-26

Master the skills most important for drawing,

detailing, and designing residential structures with RESIDENTIAL DESIGN, DRAFTING, AND DETAILING, 2E. This step-by-step presentation centers exclusively on residential, familiarizing readers with standard construction practices involving wood, engineered materials, steel, and concrete as well as the latest green concepts and alternative materials. Updates throughout this edition reflect the latest standards, codes and guidelines, including the 2012 International Residential Code. Readers concentrate on CAD techniques using the guidelines from the United States National CAD - Standard--V5. Professional examples from architects, engineers, and designers as well as activities using actual architectural drawings and designs place readers into the role of professional CAD technicians. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Drawing and Design - David A.

Madsen 2016-02-01

For more than 25 years, students have relied on this trusted text for easy-to-read, comprehensive drafting and design instruction that complies with the latest ANSI and ASME industry standards for mechanical drafting. The Sixth Edition of ENGINEERING DRAWING AND DESIGN continues this tradition of excellence with a multitude of real, high-quality industry drawings and more than 1,000 drafting, design, and practical application problems—including many new to the current edition. The text showcases actual product designs in all phases, from concept through manufacturing, marketing, and distribution. In addition, the engineering design process now features new material related to production practices that eliminate waste in all phases, and the authors describe practices to improve process output quality by using quality management methods to identify the causes of defects, remove them, and minimize manufacturing variables. Important

Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Digital Humanities - Eileen Gardiner
2015-06-30

This is an introduction and practical guide to how humanists use the digital to research, organize, analyze, and publish findings.

SketchUp Pro 2014 New features - João Gaspar
2017-09-01

With SketchUp Pro 2014 you can classify objects according to the standard IFC and export your model to other software in that format. This puts SketchUp definitely into the BIM world. Another important novelty of 2014 was the introduction of automatic texts in SketchUp LayOut, a resource that can be used to streamline the production of labels, stamps and even act like Revit's notable tags. This little book is just about this new features; Trimble introduced the 2013 and 2014 versions within a very small time interval (an unusual strategy in the software

industry), and our SketchUp Pro 2013 Step by Step book had just been released. We hope you enjoy this book and the new features of SketchUp Pro!

Automatic Reconstruction of Textured 3D Models - Pitzer, Benjamin
2015-03-23

Digital Heritage - Marinos Ioannides
2010-11-02

This volume comprises the proceedings of the Third International Euro-Mediterranean Conference (EuroMed 2010) on the historical island of Cyprus. The focal point of this conference was digital heritage, which all of us involved in the documentation of cultural heritage continually strive to implement. The excellent selection of papers published in the proceedings reflects in the best possible way the benefits of exploiting modern technological advances for the restoration, preservation and e-documentation of any kind of cultural heritage. Above all, we should always bear in mind that what we do now may be used by people in

another century to repair, rebuild or conserve the buildings, monuments, artifacts and landscapes that seem important. Recent events like earthquakes, tsunamis, volcanic eruptions, fires and insurrections show that we can never be too prepared for damage to, and loss of, the physical and, non-tangible elements of our past and, in general, our cultural heritage. To reach this ambitious goal, the topics covered included experiences in the use of innovative recording technologies and methods, and how to take best advantage of the results obtained to build up new instruments and improved methodologies for documenting in multimedia formats, archiving in digital libraries and managing a cultural heritage. Technological advances are very often reported in detail in specialized fora. This volume of proceedings establishes bridges of communication and channels of co-eration between the various disciplines involved in cultural heritage preservation.

Advanced Manufacturing and Automation V - K.

Wang 2016-02-03

Advanced Manufacturing and Automation V contains the proceedings of the 5th International Workshop of Advanced Manufacturing and Automation (IWAMA 2015). This meeting continues the success of this important international workshop series and disseminates the works of academic and industrial experts, from around the world, in the areas of advanced manufacturing and automation. The disciplines of manufacturing and automation have attained paramount importance and are vital factors for the maintenance and improvement of the economy of a nation and the quality of life. Manufacturing and automation are advancing at a rapid pace and new technologies are constantly emerging in the fields. The challenges faced by today's engineers are forcing them to keep on top of the emerging trends through continuous research and development. The papers comprising these proceedings cover various topics including: Robotics and

automation; Computational intelligence; Design and optimization; Product life-cycle management; Integration of CAD/CAPP/CAM/CIMS; Advanced manufacturing systems; Manufacturing operations management; Knowledge-based manufacturing; Manufacturing quality control and management; Sustainable production; Diagnosis and prognosis of machines; Lean and agile manufacturing; Virtual and grid manufacturing; Resource and asset management; Logistics and supply chain management; RFID applications; Predictive maintenance; Reliability and maintainability in manufacturing; Project management; Renewable energy development; Environment protection; Intelligent detection.

Virtual and Mixed Reality - Randall Shumaker
2009-07-15

The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on

Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers - dress the latest research and development efforts and highlight the human aspects of the design and

use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

Architectural Design with SketchUp - Alexander C. Schreyer 2015-10-01

Go beyond the basics: making SketchUp work for you Architectural Design with SketchUp, Second Edition, is the leading guide to this incredibly useful tool for architects, interior designers, construction professionals, and makers. With easy to follow tutorials that first brush up on the basics of the program and then cover many advanced processes, this resource offers both informative text and full-color illustrations to clearly convey the techniques and features you need to excel. The updated second edition has a new chapter that explains how to make things with SketchUp, and covers 3D printing, design to fabrication, CNC milling, and laser cutting. Other chapters also now cover

Building Information Modeling (BIM) and 3D web content generation. Additionally, the revised text offers insight into the latest products and plugin extensions, navigation methods, import/export options, and 3D model creation features to ensure you have an up to date understanding of how to make SketchUp help you meet your project goals. A leading 3D modeling application, SketchUp features documentation capabilities through photorealistic renderings and construction drawings. Because of its ease of use and ability to be enhanced with many plugin extensions for project-specific applications, SketchUp is considered the tool of choice for professionals in the architecture, interior design, construction, and fabrication fields. Access thoroughly updated information in an easy to understand writing style Increase your efficiency and accuracy when using SketchUp and refresh and supplement your understanding of SketchUp's basics Explore component-based modeling for

assembly, scheduling, collaborative design, and modeling with a BIM approach Find the right plugin extensions and understand how to best work with them See how easy it is to generate presentation-ready renderings from your 3D models Learn how you can use 3D printing, CNC milling, and laser cutting to make things with SketchUp Use cookbook-style Ruby coding to create amazing 3D objects Supplement your knowledge with video tutorials, sample files, and Ruby scripts via a robust companion website Architectural Design with SketchUp, Second Edition, is an integral resource for both students and professionals working in the architecture, interior design, construction, and fabrication industries.

Developments in 3D Geo-Information Sciences - Tijs Neutens 2009-10-16

Realistically representing our three-dimensional world has been the subject of many (philosophical) discussions since ancient times. While the recognition of the globular shape of

the Earth goes back to Pythagoras' statements of the sixth century B. C. , the two-dimensional, circular depiction of the Earth's surface has remained prevailing and also dominated the art of painting until the late Middle Ages. Given the immature technological means, objects on the Earth's surface were often represented in academic and technical disciplines by two-dimensional cross-sections oriented along combinations of three mutually perpendicular directions. As soon as computer science evolved, scientists have steadily been improving the three-dimensional representation of the Earth and developed techniques to analyze the many natural processes and phenomena taking part on its surface. Both computer aided design (CAD) and geographical information systems (GIS) have been developed in parallel during the last three decades. While the former concentrates more on the detailed design of geometric models of object shapes, the latter emphasizes the topological relationships between geographical

objects and analysis of spatial patterns. Nonetheless, this distinction has become increasingly blurred and both approaches have been integrated into commercial software packages. In recent years, an active line of inquiry has emerged along the junctures of CAD and GIS, viz. 3D geoinformation science. Studies along this line have recently made significant inroads in terms of 3D modeling and data acquisition.

Image-Based Modeling - Long Quan 2010-07-10
“This book guides you in the journey of 3D modeling from the theory with elegant mathematics to applications with beautiful 3D model pictures. Written in a simple, straightforward, and concise manner, readers will learn the state of the art of 3D reconstruction and modeling.” —Professor Takeo Kanade, Carnegie Mellon University
The computer vision and graphics communities use different terminologies for the same ideas. This book provides a translation, enabling graphics

researchers to apply vision concepts, and vice-versa, independence of chapters allows readers to directly jump into a specific chapter of interest, compared to other texts, gives more succinct treatment overall, and focuses primarily on vision geometry. Image-Based Modeling is for graduate students, researchers, and engineers working in the areas of computer vision, computer graphics, image processing, robotics, virtual reality, and photogrammetry.

Innovations in 3D Geo-Information Sciences - Umit Isikdag 2014-06-07
3D GeoInfo aims to bring together international state-of-the-art research and facilitate the dialogue on emerging topics in the field of 3D geo-information. The conference offers an interdisciplinary forum in the fields of 3D data collection and modeling; reconstruction and methods for 3D representation; data management for maintenance of 3D geo-information or 3D data analysis and visualization. The book covers the best papers

from 3D GeoInfo held in Istanbul in November 2013.

Architectural Design with SketchUp -

Alexander C. Schreyer 2015-10-02

Go beyond the basics: making SketchUp work for you Architectural Design with SketchUp, Second Edition, is the leading guide to this incredibly useful tool for architects, interior designers, construction professionals, and makers. With easy to follow tutorials that first brush up on the basics of the program and then cover many advanced processes, this resource offers both informative text and full-color illustrations to clearly convey the techniques and features you need to excel. The updated second edition has a new chapter that explains how to make things with SketchUp, and covers 3D printing, design to fabrication, CNC milling, and laser cutting. Other chapters also now cover Building Information Modeling (BIM) and 3D web content generation. Additionally, the revised text offers insight into the latest

products and plugin extensions, navigation methods, import/export options, and 3D model creation features to ensure you have an up to date understanding of how to make SketchUp help you meet your project goals. A leading 3D modeling application, SketchUp features documentation capabilities through photorealistic renderings and construction drawings. Because of its ease of use and ability to be enhanced with many plugin extensions for project-specific applications, SketchUp is considered the tool of choice for professionals in the architecture, interior design, construction, and fabrication fields. Access thoroughly updated information in an easy to understand writing style Increase your efficiency and accuracy when using SketchUp and refresh and supplement your understanding of SketchUp's basics Explore component-based modeling for assembly, scheduling, collaborative design, and modeling with a BIM approach Find the right plugin extensions and understand how to best

work with them See how easy it is to generate presentation-ready renderings from your 3D models Learn how you can use 3D printing, CNC milling, and laser cutting to make things with SketchUp Use cookbook-style Ruby coding to create amazing 3D objects Supplement your knowledge with video tutorials, sample files, and Ruby scripts via a robust companion website Architectural Design with SketchUp, Second Edition, is an integral resource for both students and professionals working in the architecture, interior design, construction, and fabrication industries.

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2012-09-30

Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice

of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. Geographic Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems.

This book aims to be useful for academics and practitioners involved in geographical data. *Computer, Intelligent Computing and Education Technology* - Hsiang-Chuan Liu 2014-03-26

This proceedings set contains selected Computer, Information and Education Technology related papers from the 2014 International Conference on Computer, Intelligent Computing and Education Technology (CICET 2014), held March 27-28, 2014 in Hong Kong. The proceedings aims to provide a platform for researchers, engineers and academics as well as indu

Social Computing - Wanxiang Che 2016-07-30
This two volume set (CCIS 623 and 634)

constitutes the refereed proceedings of the Second International Conference of Young Computer Scientists, Engineers and Educators, ICYCSEE 2016, held in Harbin, China, in August 2016. The 91 revised full papers presented were carefully reviewed and selected from 338 submissions. The papers are organized in topical sections on Research Track (Part I) and Education Track, Industry Track, and Demo Track (Part II) and cover a wide range of topics related to social computing, social media, social network analysis, social modeling, social recommendation, machine learning, data mining.

Design and Technological Applications in Sustainable Architecture - Stephen Siu Yu Lau
2021-10-19

This volume discusses the climate responsiveness of sustainable architecture design and technology in China, Japan, Singapore, and South Korea in recent years, addressing concepts and applications in urban

planning, building design, and structural performance evaluation. The four sections of the text cover the theory and implementation of sustainable architecture within various geographic boundaries and contexts, offering an interdisciplinary assessment of the challenges faced in urban areas at different climate zones. The main topics covered are: 1) urban ecological restoration under the influence of climate environment; 2) health and human considerations of building and environment; 3) prototype optimization of sustainable building, and 4) feedback of building performance and design evaluation. The book is intended to be a contribution to the growing body of knowledge on sustainable architecture for applicable use by practitioners, city planners, field researchers, and building operators in building design, construction, usage, operation, and maintenance.

Advances in 3D Geoinformation - Alias Abdul-Rahman 2016-10-17

The book presents a collection of accepted papers from the 3DGeoinfo 2015 international conference held in Kuala Lumpur, Malaysia from October 28 - 30, 2015. All papers underwent double-blind review by experts from around the globe. The conference brought together pioneering international researchers and practitioners to facilitate the dialogue on emerging topics in the field of 3D geoinformation. The focus areas include: - Data Collection and Modeling: advanced approaches for 3D data collection, reconstruction and methods for representation- Data Management: topological, geometrical and network models for maintenance of 3D geoinformation- Data Analysis and Visualization: frameworks for representing 3D spatial relationships, 3D spatial analysis and algorithms for navigation, interpolation, advanced VR, AR and MR visualisation, as well as 3D visualization on mobile devices- 3D Applications: city models, Cadastre, LBS, etc.

European Handbook of Crowdsourced Geographic Information - Cristina Capineri 2016-08-25

This book focuses on the study of the remarkable new source of geographic information that has become available in the form of user-generated content accessible over the Internet through mobile and Web applications. The exploitation, integration and application of these sources, termed volunteered geographic information (VGI) or crowdsourced geographic information (CGI), offer scientists an unprecedented opportunity to conduct research on a variety of topics at multiple scales and for diversified objectives. The Handbook is organized in five parts, addressing the fundamental questions: What motivates citizens to provide such information in the public domain, and what factors govern/predict its validity? What methods might be used to validate such information? Can VGI be framed within the larger domain of sensor networks, in which inert

and static sensors are replaced or combined by intelligent and mobile humans equipped with sensing devices? What limitations are imposed on VGI by differential access to broadband Internet, mobile phones, and other communication technologies, and by concerns over privacy? How do VGI and crowdsourcing enable innovation applications to benefit human society? Chapters examine how crowdsourcing techniques and methods, and the VGI phenomenon, have motivated a multidisciplinary research community to identify both fields of applications and quality criteria depending on the use of VGI. Besides harvesting tools and storage of these data, research has paid remarkable attention to these information resources, in an age when information and participation is one of the most important drivers of development. The collection opens questions and points to new research directions in addition to the findings that each of the authors demonstrates. Despite rapid progress in

VGI research, this Handbook also shows that there are technical, social, political and methodological challenges that require further studies and research.

Ubiquitous Positioning and Mobile Location-Based Services in Smart Phones -

Chen, Ruizhi 2012-06-30

Many smart phone users reap the benefits of location-based services. While tracking users' positions using their smart phone is an issue of concern for some, others who use Foursquare or rely on their Android GPS view location-based services as a necessity. Ubiquitous Positioning and Mobile Location-Based Services in Smart Phones explores new research in smart phones with an emphasis on positioning solutions in smart phones, smart phone-based navigation applications, mobile geographical information systems, and related standards.

Future Mechatronics and Automation -

Guohui Yang 2015-02-28

This proceedings volume contains selected

papers presented at the 2014 International Conference on Future Mechatronics and Automation, held in Beijing, China.

Contributions cover the latest developments and advances in the field of Mechatronics and Automation.

Automatic SketchUp - Matthew Scarpino

2010-03-08

Google SketchUp has become one of the most popular tools available for three-dimensional modeling. Its users include architects, engineers, woodworkers, and hobbyists from all across the world. Most designers rely on the toolbar and menus, but SketchUp provides a programming interface that makes it possible to construct designs with scripts coded in the Ruby language.

Virtual and Augmented Reality: Concepts, Methodologies, Tools, and Applications -

Management Association, Information Resources

2018-03-02

Virtual and augmented reality is the next

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frontier of technological innovation. As technology exponentially evolves, so do the ways in which humans interact and depend upon it.

Virtual and Augmented Reality: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on the trends, techniques, and uses of virtual and augmented reality in various fields, and examines the benefits and challenges of these developments. Highlighting a range of pertinent topics, such as human-computer interaction, digital self-identity, and virtual reconstruction, this multi-volume book is ideally designed for researchers, academics, professionals, theorists, students, and practitioners interested in emerging technology applications across the digital plane.

Rock Characterisation, Modelling and Engineering Design Methods - Xia-Ting Feng

2013-05-17

Rock Characterisation, Modelling and Engineering Design Methods contains the

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contributions presented at the 3rd ISRM SINOROCK Symposium (Shanghai, China, 18-20 June 2013). The papers contribute to the further development of the overall rock engineering design process through the sequential linkage of the three themes of rock characterisation, model

Mastering Autodesk Revit 2017 for Architecture
- Marcus Kim 2016-06-10

The ultimate guide to Revit Architecture just got even better. *Mastering Autodesk Revit 2017 for Architecture* is the bestselling guide for Revit Architecture users of all levels, with focused discussions, detailed exercises, and compelling real-world examples. This new edition has been completely revamped based on reader and Revit Architecture instructor feedback to be more useful, more complete, and more approachable than ever. Organized by real-world workflow, practical tutorials guide you through each phase of a project to help you understand BIM concepts and quickly start accomplishing vital Revit Architecture tasks. From templates, work-

sharing, and project management, to modeling, documentation, annotation, and complex structures, this book provides full coverage of essential Revit Architecture tools and processes. The companion website features before-and-after tutorials, additional advanced content, and an hour of video instruction to help you quickly master crucial techniques. Learn up-to-date Revit Architecture workflows and processes. Master modeling, massing, and other visualization techniques. Work with complex structural elements and advanced detailing. Prepare for Autodesk certification exams. Building information modeling pairs the visual design representation with a parametric database that stores all geometry, spatial relationships, materials, and other data generated by the design process. Design changes instantly update all documentation, and it's this efficiency that makes BIM the new permanent paradigm. Whether you're studying for a certification exam or navigating the switch

from CAD, *Mastering Autodesk Revit 2017 for Architecture* is your number-one guide to getting up and running quickly.

Mastering Autodesk Revit 2018 - Lance Kirby
2017-06-22

The best-selling Revit guide, now more complete than ever with all-new coverage on the 2018 release *Mastering Autodesk Revit 2018 for Architecture* is packed with focused discussions, detailed exercises, and real-world examples to help you get up to speed quickly on the latest version of Autodesk Revit for Architecture. Organized according to how you learn and implement the software, this book provides expert guidance for all skill levels. Hands-on tutorials allow you to dive right in and start accomplishing vital tasks, while compelling examples illustrate how Revit for Architecture is used in every project. Available online downloads include before-and-after tutorial files and additional advanced content to help you quickly master this powerful software. From

basic interface topics to advanced visualization techniques and documentation, this invaluable guide is your ideal companion through the Revit Architecture workflow. Whether you're preparing for Autodesk certification exams or just want to become more productive with the architectural design software, practical exercises and expert instruction will get you where you need to be. Understand key BIM and Revit concepts and master the Revit interface. Delve into templates, work-sharing, and managing Revit projects. Master modeling and massing, the Family Editor, and visualization techniques. Explore documentation, including annotation, detailing, and complex structures. BIM software has become a mandatory asset in today's architecture field; automated documentation updates reduce errors while saving time and money, and Autodesk's Revit is the industry leader in the BIM software space. *National Association of Broadcasters Engineering Handbook* - Garrison C. Cavell

2017-07-28

The NAB Engineering Handbook is the definitive resource for broadcast engineers. It provides in-depth information about each aspect of the broadcast chain from audio and video contribution through an entire broadcast facility all the way to the antenna. New topics include Ultra High Definition Television, Internet Radio Interfacing and Streaming, ATSC 3.0, Digital Audio Compression Techniques, Digital Television Audio Loudness Management, and Video Format and Standards Conversion. Important updates have been made to incumbent topics such as AM, Shortwave, FM and Television Transmitting Systems, Studio Lighting, Cameras, and Principles of Acoustics. The big-picture, comprehensive nature of the NAB Engineering Handbook will appeal to all broadcast engineers—everyone from broadcast chief engineers, who need expanded knowledge of all the specialized areas they encounter in the field, to technologists in specialized fields like IT

and RF who are interested in learning about unfamiliar topics. Chapters are written to be accessible and easy to understand by all levels of engineers and technicians. A wide range of related topics that engineers and technical managers need to understand are covered, including broadcast documentation, FCC practices, technical standards, security, safety, disaster planning, facility planning, project management, and engineering management.

3D Printing Technology in Nanomedicine -

Nabeel Ahmad 2019-03-30

3D Printing Technology in Nanomedicine provides an integrated and introductory look into the rapidly evolving field of nanobiotechnology. It demystifies the processes of commercialization and discusses legal and regulatory considerations. With a focus on nanoscale processes and biomedical applications, users will find this to be a comprehensive resource on how 3D printing can be utilized in a range of areas, including the

diagnosis and treatment of a variety of human diseases. Examines the emerging market of 3D-printed biomaterials and their clinical applications, with a particular focus on both commercial and premarket tools Examines the promising market of 3D-printed nanoparticles, nanomaterial, biomaterials, composite nanomaterial and their clinical applications in the cardiovascular and chemotherapy realms Develops the concept of integrating different technologies along the hierarchical structure of biological systems

Post-Parametric Automation in Design and

Construction - Alfredo Andia 2014-11-01

Automation, a mixture of algorithms, robots, software, and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry: "how are architects, engineers, and contractors using information technology to further automate their practices?" Addressing the use of new digital technologies, particularly

parametric automation for design and construction in the building industry, this book looks at how technologically advanced architectural and engineering practices are semi-automating their design processes by using sophisticated algorithms to transform their workflows. The book also documents a set of firms that are further advancing automation by using pre-fabrication, modularization, and custom designs via robotics.

Industry 4.0 in Small and Medium-Sized

Enterprises (SMEs) - Ketan Kotecha 2022-03-11

Focusing on the broader areas of Industry 4.0 as it applies to small and medium-sized enterprises (SMEs), this book offers a smooth adoption of techniques and technologies and presents advances, challenges, and opportunities for implementation. It will also enhance the role of academia by training new engineers on Industry 4.0 and digital transformation. Industry 4.0 in Small and Medium-Sized Enterprises (SMEs): Opportunities, Challenges, and Solutions

presents concepts of predictive maintenance, digital factory, digital twin, additive manufacturing, and machining for sustainable development. It discusses the challenges faced by adopting Industry 4.0 including new security and privacy measures in the whole smart manufacturing setup while also explaining the impact of Industry 4.0 on Lean production systems. Implementation recommendations in the form of case studies, research studies, and the role academia can play are also provided. Practitioners, research scholars, academicians, and those studying or working in the Industry 4.0 sector will find this book of interest.

Digital Architecture and Construction - A. Ali
2006

Digital Architecture is a particularly dynamic field that is developing through the work of architecture schools, architects, software developers, researchers, technology, users, and society alike. Featuring papers from the First International Conference on Digital

Architecture, this book will be of interest to professional and academic architects involved in the creation of new architectural forms, as well as those colleagues working in the development of new computer codes of engineers, including those working in structural, environmental, aerodynamic fields and others actively supporting advances in digital architecture. Expert contributions encompass topic areas such as: Database Management Systems for Design and Construction; Design Methods, Processes and Creativity; Digital Design, Representation and Visualization; Form and Fabric; Computer Integrated Construction and Manufacturing; Human-Machine Interaction; Connecting the Physical and the Virtual Worlds; Knowledge Based Design and Generative Systems; Linking Training, Research and Practice; Web Design Analysis; the Digital Studio; Urban Simulation; Virtual Architecture and Virtual Reality; Collaborative Design; Social Aspects.

The Routledge Companion to Paradigms of

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Performativity in Design and Architecture -

Mitra Kanaani 2019-12-12

The Routledge Companion to Paradigms of Performativity in Design and Architecture focuses on a non-linear, multilateral, ethical way of design thinking, positioning the design process as a journey. It expands on the multiple facets and paradigms of performative design thinking as an emerging trend in design methodology. This edited collection explores the meaning of performativity by examining its relevance in conjunction with three fundamental principles: firmness, commodity and delight. The scope and broader meaning of performativity, performative architecture and performance-based building design are discussed in terms of how they influence today's design thinking. With contributions from 45 expert practitioners, educators and researchers, this volume engages theory, history, technology and the human aspects of performative design thinking and its implications for the future of design.

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Augmented Reality, Virtual Reality, and Computer Graphics -

Lucio Tommaso De Paolis
2019-07-27

The 2-volume set LNCS 11613 and 11614 constitutes the refereed proceedings of the 6th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2019, held in Santa Maria al Bagno, Italy, in June 2019. The 32 full papers and 35 short papers presented were carefully reviewed and selected from numerous submissions. The papers discuss key issues, approaches, ideas, open problems, innovative applications and trends in virtual and augmented reality, 3D visualization and computer graphics in the areas of medicine, cultural heritage, arts, education, entertainment, military and industrial applications. They are organized in the following topical sections: virtual reality; medicine; augmented reality; cultural heritage; education; and industry.

Minimalism - Hartmut Obendorf 2009-06-12

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The notion of Minimalism is proposed as a theoretical tool supporting a more differentiated understanding of reduction and thus forms a standpoint that allows definition of aspects of simplicity. Possible uses of the notion of minimalism in the field of human-computer interaction design are examined both from a theoretical and empirical viewpoint, giving a range of results. Minimalism defines a radical and potentially useful perspective for design analysis. The empirical examples show that it has also proven to be a useful tool for generating and modifying concrete design techniques. Divided into four parts this book traces the development of minimalism, defines the four types of minimalism in interaction design, looks at how to apply it and finishes with some conclusions.

3D Printing with SketchUp - Marcus Ritland
2014-05-21

This book is a practical tutorial, packed with real-world case studies to help you design

models that print right the first time. If you are familiar with SketchUp and want to print the models you've designed, then this book is ideal for you. You don't need any experience in 3D printing; however, SketchUp beginners will require a companion book or video training series to teach them the basic SketchUp skills. *Teaching Geographic Information Science and Technology in Higher Education* - David Unwin
2011-12-30

Geographic Information Science and Technology (GISc&T) has been at the forefront of education innovation in geography and allied sciences for two decades. *Teaching Geographic Information Science and Technology in Higher Education* is an invaluable reference for educators and researchers working in GISc&T, providing coverage of the latest innovations in the field and discussion of what the future holds for GI Science education in the years to come. This book clearly documents teaching innovations and takes stock of lessons learned from

experience in the discipline. The content will be of interest both to educators and researchers working in GISc&T, and to educators in other related fields. More importantly, this book also anticipates some of the opportunities and challenges in GI Science and Technology education that may arise in the next decade. As such it will be of interest to chairs, deans, administrators, faculty in other subfields, and educators in general. Innovative book taking a look at recent innovations and teaching developments in the course provision of GI Science and Technology in higher education.

Edited by leaders in the field of GISc&T who have been at the forefront of education innovation in GI Science and allied science subjects. Provides coverage of GISc & Technology in a range of institutional settings from an international perspective at all levels of higher education. An invaluable text for all educators within the field of GISc&T and allied subjects with advice from experts in the field on best practice. Includes coverage and practical advice on curriculum design, teaching with GIS technology, distance and eLearning with global examples from leading academics in the field.