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Product Design Modeling using CAD/CAE is the third part of a four-part series. It is the first book to integrate discussion of computer design tools throughout the design process. Through this book, you will: Understand basic design principles and all digital design paradigms Understand computer-aided design, engineering, and manufacturing

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(CAD/CAE/CAM) tools available for various design-related tasks Understand how to put an integrated system together to conduct all-digital design (ADD) Provides a comprehensive and thorough coverage of essential elements for product modeling using the virtual engineering paradigm Covers CAD/CAE in product design, including solid modeling, mechanical assembly, parameterization, product data management, and data exchange in CAD Case studies and tutorial examples at the end of each chapter provide hands-on practice

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in implementing off-the-shelf computer design tools Provides two projects showing the use of Pro/ENGINEER and SolidWorks to implement concepts discussed in the book High Value Manufacturing is the result of the 6th International Conference on Advanced Research in Virtual and Rapid Prototyping, held in Leiria, Portugal, October 2013. It contains current contributions to the field of virtual and rapid prototyping (V&RP) and is also focused on promoting better links between industry and academia. This volume

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comprises a collection of more than 110 reviewed papers which cover a wide range of topics, such as Additive and Nano Manufacturing Technologies, Biomanufacturing, Materials, Rapid Tooling and Manufacturing, CAD and 3D Data Acquisition Technologies, Simulation and Virtual Environments, and novel applications. High Value Manufacturing is intended for engineers, designers and manufacturers who are active in the fields of mechanical, industrial and biomedical engineering.

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This volume contains the articles presented at the 16th International Meshing Roundtable (IMR) organized, in part, by Sandia National Laboratories and held in Seattle, Washington, U.S.A. in October, 2007. The volume presents recent results of mesh generation and adaptation which has applications to finite element simulation. It introduces theoretical and novel ideas with practical potential.

Structures and Architecture
Lego Software Power Tools With LDraw MLCad and LPub

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The Computer Aided Engineering Design Series

*Progress in Location-Based Services 2014
An Essential Guide for Accountants,
Lawyers, and Managers
e-Design*

A collection of surveys and research papers on mathematical software and algorithms. The common thread is that the field of mathematical applications lies on the border between algebra and geometry. Topics include polyhedral geometry, elimination theory, algebraic surfaces, Gröbner bases, triangulations of point sets and the mutual relationship. This diversity is accompanied by the abundance of available software systems which often handle only

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special mathematical aspects. This is why the volume also focuses on solutions to the integration of mathematical software systems. This includes low-level and XML based high-level communication channels as well as general frameworks for modular systems.

This book is planned to publish with an objective to provide a state-of-art reference book in the area of computational fluid dynamics for CFD engineers, scientists, applied physicists and post-graduate students. Also the aim of the book is the continuous and timely dissemination of new and innovative CFD research and developments. This reference book is a collection of 14 chapters characterized in 4 parts: modern principles of CFD, CFD in physics, industrial and in castle. This book provides a comprehensive overview of the computational experiment technology, numerical simulation of the hydrodynamics and heat transfer processes in a two

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dimensional gas, application of lattice Boltzmann method in heat transfer and fluid flow, etc. Several interesting applications area are also discusses in the book like underwater vehicle propeller, the flow behavior in gas-cooled nuclear reactors, simulation odour dispersion around windbreaks and so on.

Algorithms in algebraic geometry go hand in hand with software packages that implement them. Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications. Over the past fifteen years, several excellent general purpose packages for computations in algebraic geometry have been developed, such as, CoCoA, Singular and Macaulay 2. While these packages evolve continuously, incorporating new mathematical advances, they both motivate and demand the creation of new

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mathematics and smarter algorithms. This volume reflects the workshop “Software for Algebraic Geometry” held in the week from 23 to 27 October 2006, as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA. The papers in this volume describe the software packages Bertini, PHClab, Gfan, DEMiCs, SYNAPS, TrIm, Gambit, ApaTools, and the application of Risa/Asir to a conjecture on multiple zeta values. They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications.

Network World

America's National Technology Development Incubator

Computational Fluid Dynamics

Computer-Aided Engineering Design

Computer Forensics

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Software for Algebraic Geometry

In the last two decades, the biannual ECPPM (European Conference on Product and Process Modelling) conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT (Information and Communication Technology) applications in the AEC/FM (Architecture, Engineering, Construction and

Digital technologies are changing the way that surgeons operate. They are revolutionizing the ability of surgeons to visualize, plan, and create

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rapid prototyped models and patient-specific implants for the broad disciplines of ENT, plastic, oral and maxillofacial surgeons. This book provides information on the latest digital technologies available for craniomaxillofacial surgery, discussing how this technology allows for preplanned procedures with improved and superior outcomes. Rather than improvise during surgery, surgery and its procedures can be preconceptualized with superior outcomes and decreased patient morbidity.

Product design is a comprehensive process related to the creation of new products, and the

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ability to design and develop efficient products are key to success in today's dynamic global market. Written by experts in the field, this book provides a comprehensive overview of the product design process and its applications in various fields, particularly engineering. Over seven chapters, the authors explore such topics as development of new product design methodologies, implementation of effective methods for integrated products, development of more visualized environments for task-based conceptual design methods, and development of engineering design tools based on 3D

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photogrammetry, among others.

The Art of 3D Computer Animation and Effects

Product Design Modeling using CAD/CAE

Trademarks

Computer Animation and Effects

Technologies and Applications

Comprehensive Materials Processing

InfoWorld is targeted to Senior IT

professionals. Content is segmented into

Channels and Topic Centers. InfoWorld also

celebrates people, companies, and projects.

Master the art of computer animation and visual

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effects production with the latest edition of this cutting-edge guide This remarkable edition of The Art of 3D Computer Animation and Effects offers clear, step-by-step guidelines for the entire process of creating a fully rendered 3D computer animation. With up-to-date coverage of the latest computer animation styles and techniques, this versatile guide provides insightful information for creating animations and visual effects—from creative development and preproduction to finished animation. Designed to work with any computer platform,

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this Fourth Edition cuts through technical jargon and presents numerous easy-to-understand instructive diagrams. Full-color examples are presented—including VFX and animated feature movies, games, and TV commercials—by such leading companies as Blue Sky, Blur, BUF, Disney, DreamWorks, Electronic Arts, Framestore, ILM, Imagi, Microsoft, Mac Guff, The Mill, Menfond, Pixar, Polygon, Rhythm & Hues, Sony Imageworks, Tippett, Ubisoft, and Weta, and many other studios and groundbreaking independent artists

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from around the world. This fully revised edition features new material on the latest visual effects techniques, a useful update of the traditional principles of animation, practical information on creative development, multiple production pipeline ideas for shorts and visual effects, plus updated information on current production trends and techniques in animation, rendering, modeling, rigging, and compositing. Whether you are a student, an independent artist or creator, or a production company team member, *The Art of 3D Computer Animation*

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and Effects, Fourth Edition gives you a broad palette of tips and techniques for bringing your visions to life through 3D computer animation. Unique focus on creative development and production issues Non-platform specific, with multiple examples illustrated in a practical, step-by-step approach The newest computer animation techniques, including facial animation, image-based and non-photorealistic rendering, model rigging, real-time models, and 2D/3D integration Over 700 full-color images Encyclopedic timeline and production pipelines

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Would your company be prepared in the event of: * Computer-driven espionage * A devastating virus attack * A hacker's unauthorized access * A breach of data security? As the sophistication of computer technology has grown, so has the rate of computer-related criminal activity. Subsequently, American corporations now lose billions of dollars a year to hacking, identity theft, and other computer attacks. More than ever, businesses and professionals responsible for the critical data of countless customers and

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employees need to anticipate and safeguard against computer intruders and attacks. The first book to successfully speak to the nontechnical professional in the fields of business and law on the topic of computer crime, *Computer Forensics: An Essential Guide for Accountants, Lawyers, and Managers* provides valuable advice on the hidden difficulties that can blindside companies and result in damaging costs. Written by industry expert Michael Sheetz, this important book provides readers with an honest look at

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the computer crimes that can annoy, interrupt--and devastate--a business. Readers are equipped not only with a solid understanding of how computers facilitate fraud and financial crime, but also how computers can be used to investigate, prosecute, and prevent these crimes. If you want to know how to protect your company from computer crimes but have a limited technical background, this book is for you. Get *Computer Forensics: An Essential Guide for Accountants, Lawyers, and Managers* and get prepared.

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Full Committee Hearing on SBIR

Computerworld

NASA Tech Briefs

Proceedings of the 12th European Conference on Product and Process Modelling (ECPPM 2018), September 12-14, 2018, Copenhagen, Denmark

High Value Manufacturing: Advanced Research in Virtual and Rapid Prototyping

Sources for Software for Computer Mapping and Related Disciplines

Advances in Web-based GIS, Mapping

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Services and Applications is published as part of ISPRS WG IV/5 effort, and aims at presenting (1) Recent technological advancements, e.g., new developments under Web 2.0, map mashups, neogeography and the like; (2) Balanced theoretical discussions and technical implementations; (3) Commentary on the current stage

Create Virtual 3D LEGO Models Using LEGO Software Power Tools LEGO Master Builders have created a powerful set of tools that are distributed as freeware to the LEGO community to assist LEGO fans in their

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building adventures. Until now, these tools have been difficult to find, and even more difficult to configure to work with one another. Here, in one book, readers will find steps for installing and using all of the most popular LEGO freeware applications. Also, all of the applications are consolidated into one simple-to-install program that allows readers to be up and running in minutes. Wide market appeal. This book will appeal to the huge established consumer base of the LEGO community, as well as to

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children, parents, and teachers who may have been intimidated by the difficulties of bringing all of these applications under one roof. Ø The only book of its kind to cover the wide variety of applications available. Some books in the past have touched on one or two of these LEGO applications, but none has covered them all in such detail. Ø CD provides all of these freeware applications in one easy to install program. Included CD packs more than 8 applications into one easy-to-use format, making it easy for readers to have

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access to all of these applications in minutes and avoid the headaches of trying to download, install, configure, set up folder structures, and troubleshoot such a wide variety of loosely related freeware applications. Ø Will coincide with the release of Lpub. This will be the first in-depth look at LPub, the new creation of Kevin Clague, which ties LDraw, MLCad, L3P, and POV-Ray together to allow users to easily create professional quality LEGO instructions for both the printed page and the web.

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Cinderella is a unique, technically very sophisticated teachware for geometry that will be used as a tool by students learning Euclidean, projective, spherical and hyperbolic geometry, as well as in geometric research. Moreover, it can also serve as an authors' tool to design web pages with interactive constructions or even complete geometry exercises.

Knowledge-Based Intelligent Information and Engineering Systems

NASA Geometry Data Exchange Specification for Computational Fluid Dynamics (NASA

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IGES)

ECPPM 2014

9th International Conference, KES 2005,
Melbourne, Australia, September 14-16,
2005, Proceedings

Beyond their Limits

Official Gazette of the United States

Patent and Trademark Office

Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing

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universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies. Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features. Coverage encompasses the general

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categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperatures studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established

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information in one place with integrated applets linking to relevant outside sources

This book presents a general picture of recent research activities related to location-based services. Such activities emerged in the last years especially concerning issues of outdoor/indoor positioning, smart environment, spatial modelling, personalization and context-awareness, cartographic communication, novel user interfaces, crowdsourcing, social media, big data analysis, usability and privacy. This book is comprised of a selection of the best papers presented during the

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11th International Symposium on Location Based Services, which was held in Vienna (Austria) between 26th and 28th November 2014.

This book covers various aspects of Geometry and Graphics, from recent achievements on theoretical researches to a wide range of innovative applications, as well as new teaching methodologies and experiences, and reinterpretations and findings about the masterpieces of the past. It is from the 19th International Conference on Geometry and Graphics, which was held in São Paulo, Brazil. The

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conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. Organized five topics, which are Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education and Geometry; Graphics in History, the book is intended for the professionals, academics and researchers in architecture, engineering, industrial design,

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mathematics and arts involved in the multidisciplinary field.

Product Design

InfoWorld

*Bioengineering Solutions in Surgery: Advances, applications and solutions for clinical translation
eWork and eBusiness in Architecture, Engineering and Construction*

ESIC Cartographic Catalog

User Manual for the Interactive Geometry Software Cinderella

eWork and eBusiness in Architecture,

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Engineering and Construction 2018 collects the papers presented at the 12th European Conference on Product and Process Modelling (ECPPM 2018, Copenhagen, 12-14 September 2018). The contributions cover complementary thematic areas that hold great promise towards the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including:

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- Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban

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Environments • Collaboration and Teamwork
• BIM Implementation and Deployment •
Building Performance Simulation •
Intelligent Catalogues and Services eWork
and eBusiness in Architecture, Engineering
and Construction 2018 represents a rich
and comprehensive resource for academics
and researchers working in the
interdisciplinary areas of information
technology applications in architecture,
engineering and construction. In the last
two decades, the biennial ECPPM (European
Conference on Product and Process

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Modelling) conference series, as the oldest BIM conference, has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT (Information and Communication Technology) applications in the AEC/FM (Architecture, Engineering, Construction and Facilities Management) domains.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning

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Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to

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support everything from business critical applications to employee collaboration and electronic commerce.

Volume 2

Digital Technologies in
Craniofacial Surgery

Aluminium

[presentations at an International
Workshop MTCM2000, Organized at the Centro
de Matemática E Aplicações Fundamentais at
the University of Lisbon, in November
2000]

Google SketchUp and SketchUp Pro 7 Bible

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The Art of 3D

An updated, richly illustrated guide to creating 3D animation and special effects offers a step-by-step approach to the latest artistic and technical 3D animation techniques, taking readers through the entire process of creating a fully rendered 3D computer animation on any computer platform and covering such topics as multiple production pipelines, motion capture, image-based rendering, and more. Original. (Intermediate)

The volume includes a set of selected papers extended and revised from the International Conference on Informatics, Cybernetics, and Computer Engineering. A computer network, often simply referred to as a network, is a collection of computers and devices interconnected by communications

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channels that facilitate communications and allows sharing of resources and information among interconnected devices. Put more simply, a computer network is a collection of two or more computers linked together for the purposes of sharing information, resources, among other things. Computer networking or Data Communications (Datacom) is the engineering discipline concerned with computer networks. Computer networking is sometimes considered a sub-discipline of electrical engineering, telecommunications, computer science, information technology and/or computer engineering since it relies heavily upon the theoretical and practical application of these scientific and engineering disciplines. Networks may be classified according to a wide variety of

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characteristics such as medium used to transport the data, communications protocol used, scale, topology, organizational scope, etc. Electronics engineering, also referred to as electronic engineering, is an engineering discipline where non-linear and active electrical components such as electron tubes, and semiconductor devices, especially transistors, diodes and integrated circuits, are utilized to design electronic circuits, devices and systems, typically also including passive electrical components and based on printed circuit boards. The term denotes a broad engineering field that covers important subfields such as analog electronics, digital electronics, consumer electronics, embedded systems and power electronics. Electronics engineering deals with implementation

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of applications, principles and algorithms developed within many related fields, for example solid-state physics, radio engineering, telecommunications, control systems, signal processing, systems engineering, computer engineering, instrumentation engineering, electric power control, robotics, and many others. ICCE 2011 Volume 3 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer Engineering and Electronic Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 99 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor. Special

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thanks to editors, staff of association and every participants of the conference. It ' s you make the conference a success. We look forward to meeting you next year.

Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures and to persuade architects and structural engineers to further collaborate in this process, exploiting together new concepts, applications and challenges. This set of book of abstracts and full paper searchable CD-ROM presents selected papers presented at the 3rd

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International Conference on Structures and Architecture Conference (ICSA2016), organized by the School of Architecture of the University of Minho, Guimarães, Portugal (July 2016), to promote the synergy in the collaboration between the disciplines of architecture and structural engineering. The set addresses all major aspects of structures and architecture, including building envelopes, comprehension of complex forms, computer and experimental methods, concrete and masonry structures, educating architects and structural engineers, emerging technologies, glass structures, innovative architectural and structural design, lightweight and membrane structures, special structures, steel and composite structures, the borderline between architecture

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and structural engineering, the history of the relationship between architects and structural engineers, the tectonics of architectural solutions, the use of new materials, timber structures and more. The contributions on creative and scientific aspects of the conception and construction of structures, on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific, technical and practical novelties in both fields. This set is intended for both researchers and practitioners, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers and product manufacturers, and other experts and professionals involved in the design and realization of

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architectural, structural and infrastructural projects.

Advances in Web-based GIS, Mapping Services and Applications

ICGG 2020 - Proceedings of the 19th International Conference on Geometry and Graphics

Proceedings of the 2011 International Conference on Informatics, Cybernetics, and Computer Engineering (ICCE2011) November 19-20, 2011, Melbourne, Australia

Arithmetic Geometry, Number Theory, and Computation
Proceedings of China-Europe Conference on Geotechnical Engineering

Proceedings of the 6th International Conference on Advanced Research in Virtual and Rapid Prototyping, Leiria, Portugal,

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1-5 October, 2013

This book on multimedia tools for communicating mathematics arose from presentations at an international workshop organized at the Centro de Matemática e Aplica

e-Design: Computer-Aided Engineering Design, Revised First Edition is the first book to integrate a discussion of computer design tools throughout the design process. Through the use of this book, the reader will understand basic

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design principles and all-digital design paradigms, the CAD/CAE/CAM tools available for various design related tasks, how to put an integrated system together to conduct All-Digital Design (ADD), industrial practices in employing ADD, and tools for product development. Comprehensive coverage of essential elements for understanding and practicing the e-Design paradigm in support of product design, including design method and process, and computer

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based tools and technology Part I: Product Design Modeling discusses virtual mockup of the product created in the CAD environment, including not only solid modeling and assembly theories, but also the critical design parameterization that converts the product solid model into parametric representation, enabling the search for better design alternatives Part II: Product Performance Evaluation focuses on applying CAE technologies and

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software tools to support evaluation of product performance, including structural analysis, fatigue and fracture, rigid body kinematics and dynamics, and failure probability prediction and reliability analysis

Part III: Product Manufacturing and Cost Estimating introduces CAM technology to support manufacturing simulations and process planning, sheet forming simulation, RP technology and computer numerical control (CNC)

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machining for fast product prototyping, as well as manufacturing cost estimate that can be incorporated into product cost calculations Part IV: Design Theory and Methods discusses modern decision-making theory and the application of the theory to engineering design, introduces the mainstream design optimization methods for both single and multi-objectives problems through both batch and interactive design modes, and provides

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a brief discussion on sensitivity analysis, which is essential for designs using gradient-based approaches. Tutorial lessons and case studies are offered for readers to gain hands-on experiences in practicing e-Design paradigm using two suites of engineering software: Pro/ENGINEER-based, including Pro/MECHANICA Structure, Pro/ENGINEER Mechanism Design, and Pro/MFG; and SolidWorks-based, including SolidWorks Simulation,

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SolidWorks Motion, and CAMWorks.

Available on the companion website <http://booksite.elsevier.com/9780123820389>

An effective guide to geographic information systems and remote sensing analysis using Python 3 About This Book Construct applications for GIS development by exploiting Python This focuses on built-in Python modules and libraries compatible with the Python Packaging Index distribution system—no compiling of C libraries necessary This

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practical, hands-on tutorial teaches you all about Geospatial analysis in Python Who This Book Is For If you are a Python developer, researcher, or analyst who wants to perform Geospatial, modeling, and GIS analysis with Python, then this book is for you. Familiarity with digital mapping and analysis using Python or another scripting language for automation or crunching data manually is appreciated. What You Will Learn Automate Geospatial

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analysis workflows using Python Code
the simplest possible GIS in 60 lines
of Python Mold thematic maps with
Python tools Get hold of the various
forms that geospatial data comes in
Produce elevation contours using Python
tools Create flood inundation models
Apply Geospatial analysis to find out
about real-time data tracking and for
storm chasing In Detail Geospatial
Analysis is used in almost every field
you can think of from medicine, to

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defense, to farming. This book will guide you gently into this exciting and complex field. It walks you through the building blocks of geospatial analysis and how to apply them to influence decision making using the latest Python software. Learning Geospatial Analysis with Python, 2nd Edition uses the expressive and powerful Python 3 programming language to guide you through geographic information systems, remote sensing, topography, and more,

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while providing a framework for you to approach geospatial analysis effectively, but on your own terms. We start by giving you a little background on the field, and a survey of the techniques and technology used. We then split the field into its component specialty areas: GIS, remote sensing, elevation data, advanced modeling, and real-time data. This book will teach you everything you need to know about, Geospatial Analysis from using a

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particular software package or API to using generic algorithms that can be applied. This book focuses on pure Python whenever possible to minimize compiling platform-dependent binaries, so that you don't become bogged down in just getting ready to do analysis. This book will round out your technical library through handy recipes that will give you a good understanding of a field that supplements many a modern day human endeavors. Style and approach

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This is a practical, hands-on tutorial that teaches you all about Geospatial analysis interactively using Python.

Proceedings of the 16th International Meshing Roundtable

Learning Geospatial Analysis with Python

The Finite Element Method in Engineering

Volume 3: Computer Networks and Electronic Engineering

Algebra, Geometry and Software Systems

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Surface Modeling, Grid Generation, and Related Issues in Computational Fluid Dynamic (CFD) Solutions

This book compiles the second part of contributions to the China-Europe Conference on Geotechnical Engineering held 13.-16. August 2018 in Vienna, Austria. About 400 papers from 35 countries cover virtually all areas of geotechnical engineering and make this conference a truly international event. The contributions are grouped into thirteen special sessions and provide an overview of the geoengineering research and practice in China, Europe and the world: · Constitutive model · Micro-

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macro relationship · Numerical simulation · Laboratory testing · Geotechnical monitoring, instrumentation and field test · Foundation engineering · Underground construction · Environmental geotechnics · New geomaterials and ground improvement · Cold regions geotechnical engineering · Geohazards - risk assessment, mitigation and prevention · Unsaturated soils and energy geotechnics · Geotechnics in transportation, structural and hydraulic Engineering
The Finite Element Method in Engineering, Sixth Edition, provides a thorough grounding in the mathematical principles behind the Finite Element Analysis technique—an analytical engineering tool

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originated in the 1960's by the aerospace and nuclear power industries to find usable, approximate solutions to problems with many complex variables. Rao shows how to set up finite element solutions in civil, mechanical and aerospace engineering applications. The new edition features updated real-world examples from MATLAB, Ansys and Abaqus, and a new chapter on additional FEM topics including extended FEM (X-FEM). Professional engineers will benefit from the introduction to the many useful applications of finite element analysis. Includes revised and updated chapters on MATLAB, Ansys and Abaqus Offers a new chapter, Additional Topics in Finite Element Method Includes discussion of

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practical considerations, errors and pitfalls in FEM singularity elements Features a brief presentation of recent developments in FEM including extended FEM (X-FEM), augmented FEM (A-FEM) and partition of unity FEM (POUFEM) Features improved pedagogy, including the addition of more design-oriented and practical examples and problems Covers real-life applications, sample review questions at the end of most chapters, and updated references

The four volume set LNAI 3681, LNAI 3682, LNAI 3683, and LNAI 3684 constitute the refereed proceedings of the 9th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2005, held in Melbourne,

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Australia in September 2005. The 716 revised papers presented were carefully reviewed and selected from nearly 1400 submissions. The papers present a wealth of original research results from the field of intelligent information processing in the broadest sense; topics covered in the fourth volume are innovations in intelligent systems and their applications, data mining and soft computing applications, skill acquisition and ubiquitous human computer interaction, soft computing and their applications, agent-based workflows, knowledge sharing and reuse, multi-media authentication and watermarking applications, knowledge and engineering techniques for spatio-temporal

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applications, intelligent data analysis and applications, creativity support environment and its social applications, collective intelligence, computational methods for intelligent neuro-fuzzy applications, evolutionary and self-organizing sensors, actuators and processing hardware, knowledge based systems for e-business and e-learning, multi-agent systems and evolutionary computing, ubiquitous pattern recognition, neural networks for data mining, and knowledge-based technology in crime matching, modelling and prediction.

***Multimedia Tools for Communicating Mathematics
Proceedings of a Workshop***