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BRADFORD JORDAN

Aqueous Lubrication Springer Science & Business Media

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Building Product Models John Wiley & Sons

A general and introductory survey of foams, emulsions and cellular materials. Foams and emulsions are illustrations of some fundamental concepts in statistical thermodynamics, rheology, elasticity and the physics and chemistry of divided media and interfaces. They also give rise to some of the most beautiful geometrical shapes and tilings, ordered or disordered. The chapters are grouped into sections having fairly loose boundaries. Each chapter is intelligible alone, but cross referencing means that the few concepts that may not be familiar to the reader can be found in other chapters in the book. Audience: Research students, researchers and teachers in physics, physical chemistry, materials science, mechanical engineering and geometry.

BIM Handbook Springer

Paper-Based Analytical Devices for Chemical Analysis and Diagnostics is a valuable source of information for those interested in microfluidics, bioanalytical devices, chemical instrumentation/mechanization, in-field analysis, and more. This book provides a critical review of the scientific and technological progress of paper-based devices, as well as future trends in the field of portable paper-based sensors for chemical analysis and diagnostics directly at point of need. It uniquely focuses on the analytical techniques associated with each type of device, providing a practical framework for any researcher to use while learning how to use new types of devices in their work, deciding which ones are best for their needs, developing new devices, or working toward commercialization. Reviews the evolution of this area and offers predictions for the future of the field of paper-based analytical devices Explores the analytical techniques used in development of paper-based devices Discusses challenges and shortcomings specific to each type of device, helping users and developers to avoid pitfalls

The Democratic Coup D'état John Wiley & Sons

Created to provide an experience closer to drawing and modeling with real objects, SketchUp has won over a host of loyal users year after year. SketchUp stands out for its speed and ease when creating volumetric objects and studies, being used to produce from simple to highly complex designs. The ability to exchange information between various programs in the CAD industry and other innovations such as integration with Google Earth, Google Street View and the availability of innumerable free libraries, through the Google 3D Warehouse make SketchUp stand out. This book aims to provide a high quality learning experience. All the described procedures are illustrated; at the end of each chapter there is a summary of the main topics addressed and exercises.

Google SketchUp Pro 8 step by step Packt Publishing Ltd

This book should prove to be the definitive work explaining van der Waals forces, how to calculate them and take account of their impact under any circumstances and conditions. These weak

intermolecular forces are of truly pervasive impact, and biologists, chemists, physicists and engineers will profit greatly from the thorough grounding in these fundamental forces that this book offers. Parsegian has organized his book at three successive levels of mathematical sophistication, to satisfy the needs and interests of readers at all levels of preparation. The Prelude and Level 1 are intended to give everyone an overview in words and pictures of the modern theory of van der Waals forces. Level 2 gives the formulae and a wide range of algorithms to let readers compute the van der Waals forces under virtually any physical or physiological conditions. Level 3 offers a rigorous basic formulation of the theory.

Ice Adhesion World Scientific

Infrastructure Computer Vision delves into this field of computer science that works on enabling computers to see, identify, process images and provide appropriate output in the same way that human vision does. However, implementing these advanced information and sensing technologies is difficult for many engineers. This book provides civil engineers with the technical detail of this advanced technology and how to apply it to their individual projects. Explains how to best capture raw geometrical and visual data from infrastructure scenes and assess their quality Offers valuable insights on how to convert the raw data into actionable information and knowledge stored in Digital Twins Bridges the gap between the theoretical aspects and real-life applications of computer vision

Intelligent Links Elsevier

Introduction to AutoCAD Plant 3D 2021 is a learn-by-doing manual focused on the basics of AutoCAD Plant 3D. The book helps you to learn the process of creating projects in AutoCAD Plant 3D rather than learning specific tools and commands. It consists of sixteen tutorials, which help you to complete a project successfully. The topics explained in the plant design process are: - Creating Projects - Creating and Editing P&IDs - Managing Data - Generating Reports - Creating 3D Structures - Adding Equipment - Creating Piping - Validate Drawings - Creating Isometric Drawings - Creating Orthographic Drawing - Project Management, and - Printing and Publishing Drawings

How to Be a Children's Book Illustrator Editions Eyrolles

Nanocellulose Based Composites for Electronics presents recent developments in the synthesis and applications of nanocellulose composites in electronics, highlighting applications in various technologies. Chapters covers new trends and challenges in a wide range of electronic applications and devices. Significant properties, safety, sustainability, and environmental impacts of the electronic devices are included, along with the challenges of using nanocellulose-based composites in electronics. This book is an important reference for materials scientists and engineers configuring and designing processes for the synthesis and device fabrication of nanocellulose composites in electronics. Explores how to utilize nanocellulose fibers and nano-crystalline cellulose substances to synthesize materials with designed functionalities Outlines the major production processes for nanocellulose composites Discusses the major challenges that need to be surmounted in order to effectively use nanocellulose composites for electronics

Paper-Based Analytical Devices for Chemical Analysis and Diagnostics Oxford University Press Immunosensors are widely used and are particularly important for fast diagnosis of diseases in remote environments as well as point-of-care devices. In this book, expert scientists are covering a selection of high quality representative examples from the past five years explaining how this area has developed. It is a compilation of recent advances in several areas of immunosensors for multiple target analysis using laboratory based or point-of-care set-up, for example graphene-, ISFET- and nanostructure-based immunosensors, electrochemical magneto immunosensors and nanoimprinted immunosensors. Filling a gap in the literature, it showcases the multidisciplinary, innovative developments in this highly important area and provides pointers towards commercialisation. Delivering a single, comprehensive work, it appeals to graduate students and professional researchers across academia and industry.

Infrared and Raman Spectroscopy of Biological Materials Springer Nature

‘Antibacterial Surfaces’ covers the advances being made in the design of antibacterial surfaces, which have the ability to either prevent the initial attachment of bacterial cells, or kill any cells that come into contact with these surfaces. This book discusses the mechanisms associated with the attachment of bacteria to surfaces and the main strategies currently being employed to control the initial attachment processes. These strategies are expanded upon in the subsequent chapters, where the definition and description of antibacterial surfaces are clarified, as are the mechanisms that come into play when determining the effectiveness of an antibacterial surface. Subsequent chapters discuss a number of naturally occurring antibacterial surfaces, the methods currently being used for producing synthetic antibacterial surfaces, and the current and potential applications of such materials. This book will be of great interest to people who work with materials that need to remain free of bacterial films, from designing safer biomedical implants to the production of self-cleaning materials where the prevention of biofilm formation has significant economic advantages.

AutoCAD 2019 Training Guide Springer Science & Business Media

This book begins by introducing new and unique fabrication, micromachining, and integration manufacturing methods for MEMS (Micro-Electro-Mechanical Systems) and NEMS (Nano-Electro-Mechanical Systems) devices, as well as novel nanomaterials for sensor fabrications. The second section focuses on novel sensors based on these emerging MEMS/NEMS fabrication methods, and their related applications in industrial, biomedical, and environmental monitoring fields, which makes up the sensing layer (or perception layer) in IoT architecture. This authoritative guide offers graduate students, postgraduates, researchers, and practicing engineers with state-of-the-art processes and cutting-edge technologies on MEMS /NEMS, micro- and nanomachining, and microsensors, addressing progress in the field and prospects for future development. Presents latest international research on MEMS/NEMS fabrication technologies and novel micro/nano sensors; Covers a broad spectrum of sensor applications; Written by leading experts in the field.

Cellulose Nanocomposites CRC Press

BIM (Building Information Modelling) is transforming working practices across the built environment sector, as clients, professionals, contractors and manufacturers throughout the supply chain grasp the opportunities that BIM presents. The first book ever to focus on the implementation of BIM processes in landscape and external works, BIM for Landscape will help landscape professionals understand what BIM means for them. This book is intended to equip landscape practitioners and practices to meet the challenges and reap the rewards of working in a BIM environment - and to help professionals in related fields to understand how BIM processes can be brought into landscape projects. BIM offers significant benefits to the landscape profession, and heralds a new chapter in inter-disciplinary relationships. BIM for Landscape shows how BIM can enhance collaboration with other professionals and clients, streamline information processes, improve decision-making and deliver well-designed landscape projects that are right first time, on schedule and on budget. This book looks at the organisational, technological and professional practice implications of BIM adoption. It discusses in detail the standards, structures and information processes that form BIM Level 2-compliant workflows, highlighting the role of the landscape professional within the new ways of working that BIM entails. It also looks in depth at the digital tools used in BIM projects, emphasising the ‘information’ in Building Information Modelling, and the possibilities that data-rich models offer in landscape design, maintenance and management. BIM for Landscape will be an essential companion to the landscape professional at any stage of their BIM journey.

Seismic Design Manual, 3rd Edition vabs93

Superlubricity is defined as a sliding regime in which friction or resistance to sliding vanishes. It has been shown that energy can be conserved by further reducing/removing friction in moving mechanical systems and this book includes contributions from world-renowned scientists who address some of the most fundamental research issues in overcoming friction. Superlubricity

reviews the latest methods and materials in this area of research that are aimed at removing friction in nano-to-micro scale machines and large scale engineering components. Insight is also given into the atomic-scale origins of friction in general and superlubricity while other chapters focus on experimental and practical aspects or impacts of superlubricity that will be very useful for broader industrial community. * Reviews the latest fundamental research in superlubricity today * Presents 'state-of-the-art' methods, materials, and experimental techniques * Latest developments in tribomaterials, coatings, and lubricants providing superlubricity

[Journal, Volume 1](#) John Wiley & Sons

The FreeCAD 0.18 Basics Tutorial book is an essential guide for engineers and designers without any experience in computer-aided design. This book teaches you the basics you need to know to start using FreeCAD with easy to understand, step-by-step tutorials. The author begins by getting you familiar with the FreeCAD interface and its essential tools. You will learn to model parts and create assemblies. Next, you will learn some additional part modeling tools, create drawings, create sheet metal, perform finite element analysis, generate toolpaths for manufacturing.

[Thin Liquid Films](#) Routledge

Complete training guide of AUTOCAD 2019 Key features Building accurate, scalable 3D models for design reference Using parametric tools to make "e;smart"; drawing Discover How to create and shape your world Modeling surfaces with 3D mesh to create faces and new textures Drawing curves with polyline and spline, and applying solid fills Description This book is short, lively and based on real platform. Using real-world and imagined examples, it takes the reader through content designing process explaining everything along the way. Projects have been explained in a step-by-step manner with the commands along with a lot of new features. What will you learn AutoCAD, drawing Tools-ellipse, polygon, hatch. Parametric constraints, geometric, dimensional constraints. Usage of AutoCAD,3D modeling,3D surface & Mesh. Coordinate System with Line command. Various Annotations Text, angular, Arc length, quick dimension. Who this book is for Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- B.Arch,B.tech. Master Class Students-Msc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Industry Professionals- Preparing for Certifications. Table of contents1. Introduction to AutoCAD 20192. Overview3. Draw tools4. Modify Tools5. Annotation6. Inquiry7. Parametric8. Setting & Option9. 3D Modeling & View10. 3D Modify Tools11. 3D Surface & Mesh12. New Features Introduced In AutoCAD 201913. 2D Practice Drawings About the authorLinkan Sagar has done B.Tech from UPTU, Lucknow. His book AutoCAD Training Guide was much appreciated and opted in the AutoCAD technology. He has extensively worked on various other software's like Solidworks, Catia, Staad-pro and Revit. He is having wide Industry exposure. He has worked on and successfully delivered more than 18 major and over 100 mini live projects. He is currently associated with one of US Based MNC Company.His LinkedIn profile: linkedin.com/in/linkan-sagar-4b16a7a7 Nisha Gupta is pursuing B.Sc from Delhi. She is having wide Industry exposure, worked on and successfully delivered many live projects.

[Nanopapers](#) Elsevier

Man lubricates mostly with oil. Nature lubricates exclusively with water. Pure water is a poor

lubricant, but the addition of proteins, especially glycoproteins, can modify surfaces to make them far more lubricating at slow speeds. Understanding how nature does this, and the physical structures involved, is not only important for the understanding of diseases such as osteoarthritis, but also essential for the successful application of articulating implants, such as hips and knees, as well as the development of medical devices such as catheters and contact lenses. A host of important applications of water-based lubrication are already in place in the personal care and food industries, and further industrial applications of water-based lubrication could have a significant positive impact on the environment. This book is the first of its kind. It brings together the latest research in biological and biomimetic, water-based lubrication and is authored by the world's experts in the field. Contents:Tribology of Natural Articular Joints (Rowena Crockett)Sticky and Slippery: Interfacial Forces of Mucin and Mucus Gels (Seunghwan Lee)Aqueous Lubrication and Food Emulsions (Jason R Stokes)Aqueous Lubrication in Cosmetics (Gustavo S Luengo, Anthony Galliano and Claude Dubief)Hydrogel Friction and Lubrication (Jian Liu and Jian Ping Gong)Aqueous Lubrication with Polymer Brushes (Suzanne Giasson and Nicholas D Spencer)Water-Like Lubrication of Hard Contacts by Polyhydric Alcohols (Jean Michel Martin and Maria Isabel De Barros-Bouchet)Aqueous Lubrication of Ceramics (Mitjan Kalin) Readership: Academic and industrial tribologists, materials scientists, biomechanics professionals, and physicists and chemists with an interest in tribology. Keywords:Lubrication;Water;Polymers;Cartilage;Mucin;Ceramics;Gels;Personal Care;Food Emulsion

[Revit 2019 Architecture](#) Elsevier Health Sciences

This comprehensive reference provided a systematic examination of both the theory and applications of thin liquid films - giving a critical review of major concepts and unresolved or controversial problems, as well as revealing experimental methods. It includes results previously unpublished. Combining the work of 20 leading researchers, Thin Liquid Films furnishes a fundamental overview of thermodynamics of thin liquid films. Generously illustrated with equations, tables and drawing and containing more than 2,200 citations to pertinent literature, this is an authoritative reference for physical, surface, and colloid chemists, biophysicists and physicists; chemical engineers and advanced graduate students in chemistry, chemical engineering, biophysics and physics.

[Analysis & Design Of Structures](#) BPB Publications

The term coup d'état--French for stroke of the state--brings to mind coups staged by power-hungry generals who overthrow the existing regime, not to democratize, but to concentrate power in their own hands as dictators. We assume all coups look the same, smell the same, and present the same threats to democracy. It's a powerful, concise, and self-reinforcing idea. It's also wrong. In The Democratic Coup d'État, Ozan Varol advances a simple, yet controversial, argument: Sometimes, a democracy is established through a military coup. Covering events from the Athenian Navy's stance in 411 B.C. against a tyrannical home government, to coups in the American colonies that ousted corrupt British governors, to twentieth-century coups that toppled dictators and established democracy in countries as diverse as Guinea-Bissau, Portugal, and Colombia, the book takes the reader on a gripping journey. Connecting the dots between these

neglected events, Varol weaves a balanced narrative that challenges everything we thought we knew about military coups. In so doing, he tackles several baffling questions: How can an event as undemocratic as a military coup lead to democracy? Why would imposing generals-armed with tanks and guns and all-voluntarily surrender power to civilian politicians? What distinguishes militaries that help build democracies from those that destroy them? Varol's arguments made headlines across the globe in major media outlets and were cited critically in a public speech by Turkish President Recep Tayyip Erdogan. Written for a general audience, this book will entertain, challenge, and provoke, but more importantly, serve as a reminder of the imperative to question the standard narratives about our world and engage with all ideas, no matter how controversial.

[BIM et maquette numérique](#) John Wiley & Sons

Designing the Future DESCRIPTION A Basic book about Autodesk Revit Architecture 2019 in which Revit Architecture and its advanced version is explained in step by step. This book carries a lot, if you are starting Revit Architecture for the first time. This book is extremely simple to understand and will enlighten you with the fundamentals of Revit Architecture; you can easily learn Revit as it is a basic step-by-step book. The main objective of writing this book is to make students enthusiastic about learning the concepts of Revit. KEY FEATURES Each command is explained in a simple and understandable manner Step-by-step explanation Practical knowledge rather than theoretical knowledge Covers all the modules of Revit 2019 architecture WHAT WILL YOU LEARN Revit , its history, its usage Workspace, Revit shortcut, its Properties and Project Browser Revit Architecture Model text with set work plane Structural beam, Structural column Link Revit, Link IFC, Decal Type Project Information, Project Parameters, Project Unit WHO THIS BOOK IS FOR Mechanical engineers and designers, automobile engineers, product designers. Table of Contents 1. Revit Introduction 2. Overview 3. Architecture 4. Structural 5. Insert 6. Annotate 7. Manage 8. Modify 9. Massing & Site 10. View

[Introduction to AutoCAD Plant 3D 2021](#) BPB Publications

The Proceedings of the NATO Advanced Study Institute on Analysis and Design of Bridges held at ~eşme, Izmir, 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. Imaz. 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 presentations of research work were made during the course of the Institute by Drs. Friedrich, Karaesmen, Lamas and Parker.