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Physics of III-V Compounds Robert K. Willardson 1968
The Logic of Religion Jude P. Dougherty 2010-03-30 The philosopher and author of Western Creed, Western Identity offers a probing history of important writings on the logic of religion. The Logic of Religion offers a sweeping history of philosophical perspectives on religion from ancient Greek and Roman writings to medieval Christian thought to modern Western philosophy and beyond. Even among those who find no evidence for the existence of God, such as Karl Marx and Sigmund Freud, we encounter discussions of the nature of religion and its function in society. This study begins in antiquity with Socrates, Plato, Cicero, and Seneca. It then moves through Augustine to the Middle Ages as represented by Averroes and Aquinas. By so proceeding, philosopher Jude P. Dougherty gives the reader insight into the logic of religion as conceived before and after the advent of Christianity. Subsequent investigation leads to the works of David Hume, Immanuel Kant, and G. W. F. Hegel, each of whom spoke to the implications of religion in the practical order, and of Sigmund Freud's negative assessment of religion in The Future of an Illusion. Although the focus of this study is primarily Western religion, attention is also paid to certain Eastern modes of thought such as Buddhism and Confucianism. Throughout, readers will find many interesting philosophical observations of the nature of belief, worship, ritual, sacrifice, doctrine, theology, and community.
 Transport Phenomena and Kinetic Theory Carlo Cercignani 2007-12-03 The study of kinetic equations related to gases, semiconductors, photons, traffic flow, and other systems has developed rapidly in recent years because of its role as a mathematical tool in areas such as engineering, meteorology, biology, chemistry, materials science, nanotechnology, and pharmacy. Written by leading specialists in their respective fields, this book presents an overview of recent developments in the field of mathematical kinetic theory with a focus on modeling complex systems, emphasizing both mathematical properties and their physical meaning. Transport Phenomena and Kinetic Theory is an excellent self-study reference for graduate students, researchers, and practitioners working in pure and applied mathematics, mathematical physics, and engineering. The work may be used in courses or seminars on selected topics in transport phenomena or applications of the Boltzmann equation.
 Mathematics for the Life Sciences Erin N. Bodine 2014-08-17 The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also presenting the computational tools needed to address problems not readily investigated using mathematics alone. Proven in the classroom and requiring only a background in high school math, Mathematics for the Life Sciences doesn't just focus on calculus as do most other textbooks on the subject. It covers deterministic methods and those that incorporate uncertainty, problems in discrete and continuous time, probability, graphing and data analysis, matrix modeling, difference equations, differential equations, and much more. The book uses MATLAB throughout, explaining how to use it, write code, and connect models to data in examples chosen from across the life sciences. Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology Covers all the major quantitative concepts that national reports have identified as the ideal components of an entry-level course for life science students Provides good background for the MCAT, which now includes data-based and statistical reasoning Explicitly links data and math modeling Includes end-of-chapter homework problems, end-of-unit student projects, and select answers to homework problems Uses MATLAB throughout, and MATLAB m-files with an R supplement are available online Prepares students to read with comprehension the growing quantitative literature across the life sciences A solutions manual for professors and an illustration package is available
 Image Fusion Tania Stathaki 2011-08-29 The growth in the use of sensor technology has led to the demand for image fusion: signal processing techniques that can combine information received from different sensors into a single composite image in an efficient and reliable manner. This book brings together classical and modern algorithms and design architectures, demonstrating through applications how these can be implemented. Image Fusion: Algorithms and Applications provides a representative collection of the recent advances in research and development in the field of image fusion, demonstrating both spatial domain and transform domain fusion methods including Bayesian methods, statistical approaches, ICA and wavelet domain techniques. It also includes valuable material on image mosaics, remote sensing applications and performance evaluation. This book will be an invaluable resource to R&D engineers, academic researchers and system developers requiring the most up-to-date and complete information on image fusion algorithms, design architectures and applications. Combines theory and practice to create a unique point of reference Contains contributions from leading experts in this rapidly-developing field Demonstrates potential uses in military, medical and civilian areas

Database Processing David M. Kroenke 1983 A high price call girl whose sordid life revolves around the dark, frightening jungle of Manhattan is being stalked by dangerous psychopath, with only a detective to save her.

The Jobs Rated Almanac Les Krantz 1992 Provides up-to-date evaluations of 250 jobs and ranks them according to six vital factors--income, work environment, security, stress, physical demands, and outlook

Quantum Transport Gregoire Allaire 2008-08-13 In this volume, a result of The CIME Summer School held in Cetraro, Italy, in 2006, four leading specialists present different aspects of quantum transport modeling. It provides an excellent basis for researchers in this field.

Physics of Semiconductor Devices Massimo Rudan 2017-09-27 This textbook describes the basic physics of semiconductors, including the hierarchy of transport models, and connects the theory with the functioning of actual semiconductor devices. Details are worked out carefully and derived from the basic physical concepts, while keeping the internal coherence of the analysis and explaining the different levels of approximation. Coverage includes the main steps used in the fabrication process of integrated circuits: diffusion, thermal oxidation, epitaxy, and ion implantation. Examples are based on silicon due to its industrial importance. Several chapters are included that provide the reader with the quantum-mechanical concepts necessary for understanding the transport properties of crystals. The behavior of crystals incorporating a position-dependent impurity distribution is described, and the different hierarchical transport models for semiconductor devices are derived (from the Boltzmann transport equation to the hydrodynamic and drift-diffusion models). The transport models are then applied to a detailed description of the main semiconductor-device architectures (bipolar, MOS, CMOS), including a number of solid-state sensors. The final chapters are devoted to the measuring methods for semiconductor-device parameters, and to a brief illustration of the scaling rules and numerical methods applied to the design of semiconductor devices.

Generalized Continua - from the Theory to Engineering Applications Holm Altenbach 2012-10-18 On the roots of continuum mechanics in differential geometry -- a review.- Cosserat media.- Cosserat-type shells.- Cosserat-type rods.- Micromorphic media.- Electromagnetism and generalized continua.- Computational methods for generalized continua. The need of generalized continua models is coming from practice. Complex material behavior sometimes cannot be presented by the classical Cauchy continua. At present the attention of the scientists in this field is focused on the most recent research items ● new models, ● application of well-known models to new problems, ● micro-macro aspects, ● computational effort, and ● possibilities to identify the constitutive equations The new research directions are discussed in this volume - from the point of view of modeling and simulation, identification, and numerical methods.

Waves in Nonlinear Pre-Stressed Materials M. Destrade 2007-11-08 Papers in this book provide a state-of-the-art examination of waves in pre-stressed materials. You'll gain new perspectives via a multi-disciplinary approach that interweaves key topics. These topics include the mathematical modeling of incremental material response (elastic and inelastic), an analysis of the governing differential equations, and boundary-value problems. Detailed illustrations help you visualize key concepts and processes.

A Concise Introduction to Software Engineering Pankaj Jalote 2008-10-17 An introductory course on Software Engineering remains one of the hardest subjects to teach largely because of the wide range of topics the area enc- passes. I have believed for some time that we often tend to teach too many concepts and topics in an introductory course resulting in shallow knowledge and little insight on application of these concepts. And Software Engineering is ?nally about application of concepts to e?ciently engineer good software solutions. Goals I believe that an introductory course on Software Engineering should focus on imparting to students the knowledge and skills that are needed to successfully execute a commercial project of a few person-months e?ort while employing proper practices and techniques. It is worth pointing out that a vast majority of the projects executed in the industry today fall in this scope—executed by a small team over a few months. I also believe that by carefully selecting the concepts and topics, we can, in the course of a semester, achieve this. This is the motivation of this book. The goal of this book is to introduce to the students a limited number of concepts and practices which will achieve the following two objectives: – Teach the student the skills needed to execute a smallish commercial project.

Extended Thermodynamics Ingo Müller 2013-03-08 Physicists firmly believe that the differential equations of nature should be hyperbolic so as to exclude action at a distance; yet the equations of irreversible thermodynamics - those of Navier-Stokes and Fourier - are parabolic. This incompatibility between the expectation of physicists and the classical laws of thermodynamics has prompted the formulation of extended thermodynamics. After describing the motifs and early evolution of this new branch of irreversible thermodynamics, the authors apply the theory to mon-atomic gases, mixtures of gases, relativistic gases, and "gases" of phonons and photons. The discussion brings into perspective the various phenomena called second sound, such as heat propagation, propagation of shear stress and concentration, and the second sound in liquid helium. The formal mathematical structure of extended thermodynamics is exposed and the theory is shown to be fully compatible with the kinetic theory of gases. The study closes with the testing of extended thermodynamics through the exploitation of its predictions for measurements of light scattering and sound propagation.

Entropy and Information in Science and Philosophy Libor Kubát 1975

From Fractals And Cellular Automata To Biology: Information As Order Hidden Within Chance Alberto Strumia 2020-07-02 The didactical level of exposition, together with many astonishing images and animations, accompanied by the related simple computer programming codes (in Python and POV-Ray languages) make this book an extremely and unique useful tool to test the power of algorithmic information in generating ordered structure models (2D and 3D) like regular geometric shapes, complex shapes like fractals and cellular automata, and biological systems as the organs of a living body. Informational biologists besides mathematicians and physicists of complexity may learn to test their own capabilities in programming and modelling ordered structures starting from random initial conditions at different scale of each system: from elementary particles, to biological systems, to galaxies and the whole universe. Moreover the philosophical comments comparing some aspects of modern information

theory to the Aristotelian notion of 'form are very appealing also for the epistemologist and the philosopher involved in complexity matters.

The Geometry of Supermanifolds C. Bartocci 1991-10-31 'Et moi, ...• si favait III mmment en revenir, One service mathematics has rendered the je n'y serais point aile:' human race. It has put CXlUImon sense back Iules Verne where it belongs. on the topmost shelf next to the dUlty canister lahelled 'discarded non- The series i. divergent; therefore we may be able to do something with it. Eric T. Bell O. Hesvi.ide Mathematics is a tool for thOUght. A highly necessary tool in a world where both feedback and non linearities abound. Similarly, all kinds of parts of mathematics serve as tools for other parts and for other sciences. Applying a simple rewriting rule to the quote on the right above one finds such statements as: 'One service topology has rendered mathematical physics .. .'; 'One service logic has rendered com puter science .. .'; 'One service category theory has rendered mathematics .. .'. All arguably true. And all statements obtainable this way form part of the raison d't!tre of this series.

Why Architects Still Draw Paolo Belardi 2014-02-14 An architect's defense of drawing as a way of thinking, even in an age of electronic media. Why would an architect reach for a pencil when drawing software and AutoCAD are a click away? Use a ruler when 3D-scanners and GPS devices are close at hand? In Why Architects Still Draw, Paolo Belardi offers an elegant and ardent defense of drawing by hand as a way of thinking. Belardi is no Luddite; he doesn't urge architects to give up digital devices for watercolors and a measuring tape. Rather, he makes a case for drawing as the interface between the idea and the work itself. A drawing, Belardi argues, holds within it the entire final design. It is the paradox of the acorn: a project emerges from a drawing—even from a sketch, rough and inchoate—just as an oak tree emerges from an acorn. Citing examples not just from architecture but also from literature, chemistry, music, archaeology, and art, Belardi shows how drawing is not a passive recording but a moment of invention pregnant with creative possibilities. Moving from the sketch to the survey, Belardi explores the meaning of measurement in a digital era. A survey of a site should go beyond width, height, and depth; it must include two more dimensions: history and culture. Belardi shows the sterility of techniques that value metric exactitude over cultural appropriateness, arguing for an "informed drawing" that takes into consideration more than meters or feet, stone or steel. Even in the age of electronic media, Belardi writes, drawing can maintain its role as a cornerstone of architecture.

Weak Without Him Lyra Parish 2014-03-30 "Love is an emotion that will destroy you if you let it. It can ruin your life or create a new one. Jealousy isn't much different." Jennifer Downs treads in dangerous waters. Finnley Felton is unaware. With the help of Lady Luck, they will make it through. Or will they? Texas is nothing compared to Vegas but among the bright lights and busy streets, Jennifer discovers who she is. Her life has changed, and for better or worse, she continues to live like tomorrow will never come. Sabotage. Hatred. Betrayal. Although love is beautiful and kind, it comes with consequences. Jennifer finds herself fighting. Fighting for her rights, for love, for Finnley, and for her life. Hearts may be broken. Lives will change. But the ultimate question remains: can love win all?

Nonlinear Waves in Solids A. Jeffrey 2014-05-04 Travelling wave processes and wave motion are of great importance in many areas of mechanics, and nonlinearity also plays a decisive role there. The basic mathematical models in this area involve nonlinear partial differential equations, and predictability of behaviour of wave phenomena is of great importance. Beside fluid dynamics and gas dynamics, which have long been the traditional nonlinear scienes, solid mechanics is now taking an ever increasing account of nonlinear effects. Apart from plasticity and fracture mechanics, nonlinear elastic waves have been shown to be of great importance in many areas, such as the study of impact, nondestructive testing and seismology. These lectures offer a thorough account of the fundamental theory of nonlinear deformation waves, and in the process offer an up to date account of the current state of research in the theory and practice of nonlinear waves in solids.

Safety, Health and Welfare in Agriculture and Agro-food Systems Marcello Biocca 2022-03-23 This book gathers the latest advances, innovations and applications in the field of agricultural biotechnology, agro-food systems and forestry, as presented by leading international researchers and engineers at the 5th International Conference on Safety, Health and Welfare in Agriculture and Agro-food Systems (SHWA), held in Ragusa, Italy, on September 15-18, 2021. The papers cover a range of topics such as agricultural assistive technologies, machine milking, animal welfare, sustainable livestock farming, work organization and logistic in agro-food supply chain, agricultural instrumentation and equipment, safety and health in building, agriculture 4.0, automation, occupational health, precision farming, effect of landscapes on human health, environmental safety, rural health, agricultural machinery, ROPS, augmented reality and IoT, cyber security. The contributions included in the book were selected by means of a rigorous peer-review process, and offer an extensive and multidisciplinary overview of interesting solutions in the field of sustainable agriculture.

Mathematical Analysis I Claudio Canuto 2015-04-08 The purpose of the volume is to provide a support for a first course in Mathematics. The contents are organised to appeal especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

Theoretical Kinematics O. Bottema 1990 Classic, comprehensive treatment covers Euclidean displacements; instantaneous kinematics; two-position, three-position, four-and-more position theory; special motions; multiparameter motions; kinematics in other geometries; and special mathematical methods.

Advances in Utopian Studies and Sacred Architecture Claudio Gambardella 2021-02-02 At a time dominated by the disappearance of Future, as claimed by the French anthropologist Marc Augé, Utopia and Religion seem to be two different ways of giving back an inner horizon to mankind. Therefore this book, on the one hand, considers the importance of utopia as a tool and how it offers an economic and social resource to improve cities' wealth, future and livability. On the other, it explores the impact of religious and cultural ideals on cities that have recently emerged in this context. Based on numerous observations, the book examines the intellectual legacy of utopian theory and practices across various academic disciplines. It also presents discussions, theories, and case studies addressing a range of issues and topics related to utopia.

Physical Metallurgy for Engineers Miklós Tisza 2001-01-01 This book should be a valuable reference for experienced metallurgists, mechanical engineers, and students seeking a practical technical introduction to metallurgy. Contents are based on lectures designed for undergraduate students in mechanical engineering, and the book is an excellent introduction to the fundamentals of applied metallurgy. The book also contains numerous graphs, tables, and explanations that can prove useful even for experienced metallurgists and researchers. Contents cover both the fundamental and applied aspects of metallurgy. The first half of the book covers the basic principles of metallurgy, the behavior of crystalline materials, and the underlying materials concepts related to the mechanical properties of metals. The second half focuses on applied physical metallurgy. This includes coverage of the metallurgy of common alloys systems such as carbon steels, alloyed steels, cast iron, and nonferrous alloys.Contents include: Introduction to Physical Metallurgy The Atomic Structure of Materials Fundamentals of Crystal Structure Basic Rules of Crystallization Imperfections in Crystalline Solids Mechanical Properties of Single-Phase Metallic Materials Metallic Alloys Equilibrium Crystallization of Iron-Carbon Alloys Non-Equilibrium Crystallization of Iron-Carbon Alloys Plain Carbon Steels Alloyed Steels Cast Iron Nonferrous Metals and Alloys.

Trend and Applications of Mathematics to Mechanics S. Rionero 2006-09-11 The book provides a collection of recent theoretical and methodological advances which can provide support and stimulus to scientists and scholars involved in research activity in the fields of interest.

Differential Equations and Nonlinear Mechanics Kuppalapalle Vajravelu 2013-12-01 The International Conference on Differential Equations and Nonlinear Mechanics was hosted by the University of Central Florida in Orlando from March 17-19, 1999. One of the conference days was dedicated to Professor V. Lakshmikantham in th honor of his 75 birthday. 50 well established professionals (in differential equations, nonlinear analysis, numerical analysis, and nonlinear mechanics) attended the conference from 13 countries. Twelve of the attendees delivered hour long invited talks and remaining thirty-eight presented invited forty-five minute talks. In each of these talks, the focus was on the recent developments in differential equations and nonlinear mechanics and their applications. This book consists of 29 papers based on the invited lectures, and I believe that it provides a good selection of advanced topics of current interest in differential equations and nonlinear mechanics. I am indebted to the Department of Mathematics, College of Arts and Sciences, Department of Mechanical, Materials and Aerospace Engineering, and the Office of International Studies (of the University of Central Florida) for the financial support of the conference. Also, to the Mathematics Department of the University of Central Florida for providing secretarial and administrative assistance. I would like to thank the members of the local organizing committee, Jeanne Blank, Jackie Callahan, John Cannon, Holly Carley, Brad Pyle, Pete Rautenstrauch, and June Wingler for their assistance. Thanks are also due to the conference organizing committee, F. H. Busse, J. R. Cannon, V. Girault, R. H. J. Grimshaw, P. N. Kaloni, V.

Contemporary Research in the Mechanics and Mathematics of Materials R. C. Batra 1996

Topics in Finite Elasticity Michael Hayes 2001-06-19 More than fifty years ago, Professor R. S. Rivlin pioneered developments in both the theory and experiments of rubber elasticity. These together with his other fundamental studies contributed to a revitalization of the theory of finite elasticity, which had been dormant, since the basic understanding was completed in the nineteenth century. This book with chapters on foundation, models, universal results, wave propagation, qualitative theory and phase transitions, indicates that the subject he reinvigorated has remainded remarkably vibran and has continued to present significant deep mathematical and experimental challenges.

Simulation of Semiconductor Processes and Devices 1998 Kristin De Meyer 2012-12-06 This volume contains the proceedings of the 1998 International Conference on Simulation of Semiconductor Processes and Devices and provides an open forum for the presentation of the latest results and trends in modeling and simulation of semiconductor equipment, processes and devices. Topics include: • semiconductor equipment simulation • process modeling and simulation • device modeling and simulation of complex structures • interconnect modeling • integrated systems for process, device, circuit simulation and optimisation • numerical methods and algorithms • compact modeling and parameter extraction • modeling for RF applications • simulation and modeling of new devices (heterojunction based, SET's, quantum effect devices, laser based ...)

Looptail Bruce Tip 2014-04-03 Looptail is Bruce Poon Tip's extraordinary first-person account of his entrepreneurial instincts to start and develop G Adventures, the highly successful international travel adventure company - and along the way he reveals his unusual management secrets that not only keep his employees fully engaged and energized but also keep his customers extremely happy. His unique appraoch has worked in marvellous ways. Poon Tip has created an entirely new and refreshing approach to management. For example, there is no CEO at G Adventures - instead, every employee is a CEO, empowered to make instantaneous decisions to help clients on the spot. But while there's no CEO, there is a company Mayor, who take the pulse of corporate morale. There's no HR department - but there is a Talent Agency and company Culture Club. It hasn't always been easy to try to balance his desire for a socially responsible company along with the desire to generate profits. But thanks to Poon Tip's

vision, G Adventures has floruished and has done its best to maintain its looptail approach. In short, it's been an extraordinary ride, and in many ways G Adventures is at the vanguard of what modern-day companies are beginning to look like.

Transport in Multilayered Nanostructures

Ventilazione meccanica non invasiva Stefano Nava 2010-02-13 La crescita esponenziale dell'interesse per la ventilazione non invasiva (NIV) verificatasi negli ultimi 10-15 anni, non solo dal punto di vista clinico e applicativo, ma anche speculativo, ha pochi eguali nella recente storia della medicina. In Italia e in Europa in generale tale metodica è applicata su larga scala, prevalentemente nei reparti di Pneumologia e nelle Unità di Cure Intermedie Respiratorie, mentre per quanto riguarda la sua applicazione nei reparti di Terapia Intensiva Generale (UTI) i dati emersi da uno studio multicentrico condotto nei paesi francofoni vedono la NIV impiegata in una quantità di casi che rappresenta fino al 50% dei pazienti che richiedono assistenza ventilatoria. Il recente studio EUROVENT ha inoltre dimostrato come la NIV non si limiti alla sua applicazione "acuta", dal momento che circa 25.000 pazienti sono attualmente ventilati "in cronico" a domicilio. Inoltre, si calcola che milioni di cittadini europei soffrano attualmente di disturbi respiratori durante il sonno, e per molti di essi il trattamento medico di prima scelta è rappresentato dalla NIV. Questo libro si propone lo scopo di richiamare l'attenzione sulle più recenti acquisizioni in questo campo, con la speranza di fornire uno strumento valido e maneggevole per la scelta e l'impostazione della migliore modalità di ventilazione.

Nonlinear Waves and Dissipative Effects Domenico Fusco 1991-11-25 The collection of papers contained in this volume, the authors of which attended Euromech 270, provides a useful contribution to the study of nonlinear dissipative wave propagation.

Near Earth Objects, Our Celestial Neighbors (IAU S236) International Astronomical Union. Symposium 2007-05-24 IAU S236 concentrates on specific techniques of observation and modeling Near Earth Objects (NEOs).

Energy and Seismic Renovation Strategies for Sustainable Cities Giuseppe Margani 2019-06-11 The principle of sustainability should be strictly connected with safety, since both aim to conserve resources: in the case of sustainability, the resources are typically thought of as environmental, while in the case of safety, the resources are basically human. In spite of this common ground, discussions on sustainability usually give insufficient attention to safety. In the last years the EU has made large investments to increase the energy efficiency of the existing building stock, paving the way for a low-carbon future; however, less effort has been made to enhance its seismic resilience. Therefore, the safety and, consequently, the sustainability of towns situated in earthquake-prone countries remain inadequate. In such countries, energy renovation actions should be combined with seismic retrofitting. However, a number of barriers considerably limit the real possibility of extensively undertaking combined retrofit actions, especially for multi-owner housing and high-rise buildings. These barriers are of different kinds: technical (e.g., unfeasibility and/or ineffectiveness of conventional retrofit solutions), financial (e.g., high renovation costs, insufficient incentives/subsidies), organizational (e.g., occupants' disruption and relocation, renovation consensus by condominium ownerships), and cultural/social (insufficient information and skills, lack of adequate policy measures for promoting renovation actions). This book aims to overcome these barriers and to bridge the gap between sustainability and safety, so to conserve both human and environmental resources.

Image Analysis and Recognition Aurélio Campilho 2004-09-23 ICIAR 2004, the International Conference on Image Analysis and Recognition, was the ?rst ICIAR conference, and was held in Porto, Portugal. ICIAR will be organized annually, and will alternate between Europe and North America. ICIAR 2005 will take place in Toronto, Ontario, Canada. The idea of o?ering these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange, mainly between these two countries, but also with the open participation of other countries, addressing recent advances in theory, methodology and applications. The response to the call for papers for ICIAR 2004 was very positive. From 316 full papers submitted, 210 were accepted (97 oral presentations, and 113 - sters). The review process was carried out by the Program Committee members and other reviewers; all are experts in various image analysis and recognition areas. Each paper was reviewed by at least two reviewing parties. The high q- lity of the papers in these proceedings is attributed ?rst to the authors, and second to the quality of the reviews provided by the experts. We would like to thank the authors for responding to our call, and we wholeheartedly thank the reviewers for their excellent work in such a short amount of time. We are espe- ally indebted to the Program Committee for their e?orts that allowed us to set up this publication. We were very pleased to be able to include in the conference, Prof. Murat KuntfromtheSwissFederalInstituteofTechnology,andProf. Mario´ Figueiredo, oftheInstitutoSuperiorT´ ecnico,inPortugal.

Modal Analysis Theory and Testing Ward Heylen 1998

Dynamics of Populations of Planetary Systems (IAU C197) Zoran Knezevic 2005-05-05 Recent advances in computational power are now enabling scientists to consider problems of population dynamics at an advanced level regarding the small bodies of our solar system, the planets around other stars, dust belts, space debris, etc., and their collective dynamical evolution, stability and instability, order and chaos, aggregations and impacts. Important results on specific populations of celestial bodies, in addition to new methods of computation and analysis, have been obtained in the last few years. This proceedings volume reviews current understanding of the field, and is a valuable resource for professional astronomers and planetary scientists.

Conservation and Restoration of Built Heritage Salvatore D'Agostino 2021-08-16 The word conservation, when used in the context of the preservation of built heritage, implies an intrinsically complex concept that evolved over time, since it has been influenced by the perception of history throughout time. This volume emphasises why an understanding of the cultural evolution of the conservation approach must be considered a prerequisite for architects and engineers if they are to cooperate in full harmony with historic-artistic culture for the preservation of global built heritage. In particular, the volume highlights how, during the second half of the last century, the preservation process also involved engineering – the science of making practical applications of knowledge – which, for a long time, made an uncritical use of techniques and materials and devised interventions on historical heritage that were heavily invasive. The volume also devotes special attention to the problems related to seismic risk, to which Italy,

Greece and Portugal are particularly prone. Problems that emerge during the crisis and reconstruction phases are dealt with in detail, as is scheduled maintenance, as this latter approach always constitutes an improvement in the performance of the monument and is the most appropriate tool for the conservation of the built heritage. Finally, the volume collects examples of building restoration with case studies of many outstanding monuments. The work will appeal to professionals and academics in the broader fields of civil engineering (both geotechnical and structural engineering), architecture, art history, the history of architecture, restoration and cultural heritage management. This book will: Provide a critical reading of the history of conservation; Discuss materials and techniques of ancient architecture; Cover seismic vulnerability and preservation of the historic integrity of the monument; Advocate an approach based on programmed maintenance; Feature numerous case histories, including St Mark's Basilica in Venice and the complex restoration of the cathedral of Notre-Dame in Paris.
Modeling of Collisions A. Decoster 1998