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Laser Physics - 2004

Smart Innovations in Communication and Computational Sciences - Bijaya Ketan Panigrahi 2018-07-11
The book provides insights into International Conference on Smart Innovations in Communications and Computational Sciences (ICSICCS 2017) held at North West Group of Institutions, Punjab, India. It presents new advances and research results in the fields of computer and communication written by leading researchers, engineers and scientists in the domain of interest from around the world. The book includes research work in all the areas of smart innovation, systems and technologies, embedded knowledge and intelligence, innovation and sustainability, advance computing, networking and informatics. It also focuses on the knowledge-transfer methodologies and innovation strategies employed to make this happen effectively. The combination of intelligent systems tools and a broad range of applications introduce a need for a synergy of disciplines from science and technology. Sample areas include, but are not limited to smart hardware, software design, smart computing technologies, intelligent communications and networking, web and informatics and computational sciences.
Scientific and Technical Aerospace Reports - 1990

Computational Methods in Mechanical Systems - Jorge Angeles 2013-06-29
The chapters of this book summarize the lectures delivered du ring the NATO Advanced Study Institute (ASI) on Computational Methods in Mechanisms, that took place in the Sts. Constantin and Elena Resort, near Varna, on the Bulgarian Coast of the Black Sea, June 16-28, 1997. The purpose of the ASI was to bring together leading researchers in the area of mechanical systems at large, with special emphasis in the computational issues around their analysis, synthesis, and optimization, during two weeks of lectures and discussion. A total of 89 participants from 23 count ries played an active role during the lectures and sessions of contributed papers. Many of the latter are being currently reviewed for publication in specialized journals. The subject of the book is mechanical systems, Le. , systems composed of rigid and flexible bodies, coupled by mechanical means so as to constrain their various bodies in a goal-oriented manner, usually driven under computer con trol. Applications of the discipline are thus of the most varied nature, ranging from transportation systems to biomedical devices. U nder normal operation conditions, the constitutive bodies of a mechanical system can be consid ered to be rigid, the rigidity property then easing dramatically the analysis of the kinematics and dynamics of the system at hand. Examples of these systems are the suspension of a terrestrial vehicle negotiating a curve at speeds within the allowed or recommended limits and the links of multiaxis industrial robots performing conventional pick-and-place operations.
Bionanodesign 2nd Edition - Maxim Ryadnov 2021-12-10
This new edition highlights contemporary approaches for designing nanostructures that employ naturally derived self-assembling motifs as synthetic platforms.
Real-Time Integration Methods for Mechanical System Simulation - Edward J. Haug 2013-06-29
This book contains the edited versions of lectures and selected contributed papers presented at the NATO Advanced Research Workshop on Real-Time Integration Methods For Mechanical System Simulation, held in Snowbird, Utah, August 7-11, 1989. The Institute was attended by 42 participants from 9 countries, including leading mathematicians and engineers from universities, research institutions, and industry. The majority of participants presented either invited or contributed papers during the Institute, and everyone participated in lively discussions on scientific aspects of the program. The Workshop provided a forum for investigation of promising new directions for solution of differential-algebraic equations (DAE) of mechanical system dynamics by mathematicians and engineers from numerous schools of thought. The Workshop addressed needs and opportunities for new methods of solving of DAE of mechanical system dynamics, from the perspective of a broad range of engineering and scientific applications. Among the most exciting new applications addressed was real time computer simulation of mechanical systems that, for the first time in human history, permits operator-in-the-Ioop simulation of equipment that is controlled by the human; e.g., driving a vehicle, operating a space telerobot, operating a remote manipulator, and operating construction equipment. The enormous potential value of this new application and the fact that real-time numerical integration methods for DAE of mechanical system dynamics is the pacing problem to be solved in realizing this potential served to focus much of the discussion at the Workshop.
Structural DNA Nanotechnology - Nadrian C. Seeman 2016-01-07
Written by the founder of the field, this is the first text of its kind, providing a definitive introduction to structural DNA nanotechnology. Readers will learn everything there is to know about the subject from the unique perspective of the leading expert in the field. Topics covered range from origins and history, to design, experimental techniques, DNA nanomechanics devices, computing, and the uses of DNA nanotechnology in organising other materials. Clearly written, and benefiting from over 200 full colour illustrations, readers will find this an accessible and easy to follow text that is essential reading for anyone who wants to enter this rapidly growing field. Ideal for advanced undergraduate and graduate students, as well as researchers in a range of disciplines including nanotechnology, materials science, physics, biology, chemistry, computational science and engineering.
Advanced Tribology - Jianbin Luo 2010-07-16
"Advanced Tribology" is the proceedings of the 5th China International Symposium on Tribology (held every four years) and the 1st International Tribology Symposium of IFToMM, held in Beijing 24th-27th September 2008. It contains seven parts: lubrication; friction and wear; micro/nano-tribology; tribology of coatings, surface and interface; biotribology; tribo-chemistry; industry tribology. The book reflects the recent progress in the fields such as lubrication, friction and wear, coatings, and precision manufacture etc. in the world. The book is intended for researchers, engineers and graduate students in the field of tribology, lubrication, mechanical production and industrial design. The editors Jianbin Luo, Yonggang Meng, Tianmin Shao and Qian Zhao are all the professors at the State Key Lab of Tribology, Tsinghua University, Beijing.
Structure-preserving Integrators in Nonlinear Structural Dynamics and Flexible Multibody Dynamics - Peter Betsch 2016-05-10
This book focuses on structure-preserving numerical methods for flexible multibody dynamics, including nonlinear elastodynamics and geometrically exact models for beams and shells. It also deals with the newly emerging class of variational integrators as well as Lie-group integrators. It discusses two alternative approaches to the discretization in space of nonlinear beams and shells. Firstly, geometrically exact formulations, which are typically used in the finite element community and, secondly, the absolute nodal coordinate formulation, which is popular in the multibody dynamics community. Concerning the discretization in time, the energy-momentum method and its energy-decaying variants are discussed. It also addresses a number of issues that have arisen in the wake of the structure-preserving discretization in space. Among them are the parameterization of finite rotations, the

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incorporation of algebraic constraints and the computer implementation of the various numerical methods. The practical application of structure-preserving methods is illustrated by a number of examples dealing with, among others, nonlinear beams and shells, large deformation problems, long-term simulations and coupled thermo-mechanical multibody systems. In addition it links novel time integration methods to frequently used methods in industrial multibody system simulation.

Mechanical System Dynamics - Friedrich Pfeiffer 2008-09-27

Mechanics as a fundamental science in Physics and in Engineering deals with interactions of forces resulting in motion and deformation of material bodies. Similar to other sciences Mechanics serves in the world of Physics and in that of Engineering in a di?erent way, in spite of many and increasing inter- pendencies. Machines and mechanisms are for physicists tools for cognition and research, for engineers they are the objectives of research, according to a famous statement of the Frankfurt physicist and biologist Friedrich Dessauer. Physicists apply machines to support their questions to Nature with the goal of new insights into our physical world. Engineers apply physical knowledge to support the realization process of their ideas and their intuition. Physics is an analytical Science searching for answers to questions concerning the world around us. Engineering is a synthetic Science, where the physical and ma- ematical fundamentals play the role of a kind of reinsurance with respect to a really functioning and e?ciently operating machine. Engineering is also an iterative Science resulting in typical long-time evolutions of their products, but also in terms of the relatively short-time developments of improving an existing product or in developing a new one. Every physical or mathematical Science has to face these properties by developing on their side new methods, new practice-proved algorithms up to new fundamentals adaptable to new technological developments. This is as a matter of fact also true for the ?eld of Mechanics.

Biotechnology - David P. Clark 2015-05-16

Biotechnology, Second Edition approaches modern biotechnology from a molecular basis, which has grown out of increasing biochemical understanding of genetics and physiology. Using straightforward, less-technical jargon, Clark and Pazdernik introduce each chapter with basic concepts that develop into more specific and detailed applications. This up-to-date text covers a wide realm of topics including forensics, bioethics, and nanobiotechnology using colorful illustrations and concise applications. In addition, the book integrates recent, relevant primary research articles for each chapter, which are presented on an accompanying website. The articles demonstrate key concepts or applications of the concepts presented in the chapter, which allows the reader to see how the foundational knowledge in this textbook bridges into primary research. This book helps readers understand what molecular biotechnology actually is as a scientific discipline, how research in this area is conducted, and how this technology may impact the future. Up-to-date text focuses on modern biotechnology with a molecular foundation Includes clear, color illustrations of key topics and concept Features clearly written without overly technical jargon or complicated examples Provides a comprehensive supplements package with an easy-to-use study guide, full primary research articles that demonstrate how research is conducted, and instructor-only resources

Research and Technology - George C. Marshall Space Flight Center 1984

Annual Report of the Department of Atomic Energy, Government of India - India. Department of Atomic Energy 2011

Rigid Body Dynamics of Mechanisms - Hubert Hahn 2013-11-11

This monograph presents an introduction into basic mechanical aspects of mechatronic systems for students, researchers and engineers from industrial practice. An overview over the theoretical background of rigid body mechanics is given as well as a systematic approach for deriving and solving model equations of general rigid body mechanisms in the form of differential-algebraic equations (DAE). The objective of this book is to prepare the reader for being capable of efficiently handling and applying general purpose rigid body programs to complex mechanisms. The reader will be able to set up symbolic mathematical models of planar and spatial mechanisms in DAE-form for computer simulations, often required in dynamic analysis and in control design.

Advances in Structural Engineering - VASANT MATSAGAR 2014-12-30

The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Data Science in Engineering, Volume 9 - Ramin Madarshahian 2021-10-04

Data Science and Engineering Volume 9: Proceedings of the 39th IMAC, A Conference and Exposition on Structural Dynamics, 2021, the ninth volume of nine from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Data Science in Engineering, including papers on: Data Science in Engineering Applications Engineering Mathematics Computational Methods in Engineering

IUTAM Symposium on Vibration Control of Nonlinear Mechanisms and Structures - H. Ulbrich 2005-11-07

During the last decades, the growth of micro-electronics has reduced the cost of computing power to a level acceptable to industry and has made possible sophisticated control strategies suitable for many applications. Vibration c- trol is applied to all kinds of engineering systems to obtain the desired dynamic behavior, improved accuracy and increased reliability during operation. In this context, one can think of applications related to the control of structures' vib- tion isolation, control of vehicle dynamics, noise control, control of machines and mechanisms and control of ?uid-structure-interaction. One could continue with this list for a long time. Research in the ?eld of vibration control is extremely comprehensive. Pr- lems that are typical for vibration control of nonlinear mechanisms and str- tures arise in the ?elds of modeling systems in such a way that the model is suitable for control design, to choose appropriate actuator and sensor locations and to select the actuators and sensors. Theobjective of the Symposium was to present anddiscuss methodsthat contribute to thesolution of such problems and to demonstrate the state of the art inthe ?eld shown by typical examples. The intention was to evaluate the limits of performance that can beachievedby controlling the dynamics, and to point out gaps in present research and give links for areas offuture research.Mainly, it brought together leading experts from quite different areas presenting theirpoints of view.

Rigid Body Dynamics of Mechanisms 2 - Hubert Hahn 2013-03-09

Intended for self-study, this second volume presents a systematic approach for deriving model equations of planar and spatial mechanisms. The necessary theoretical foundations have been laid in the first volume. The focus is on the application of the modeling methodology to various examples of rigid-body mechanisms, simple planar ones as well as more challenging spatial problems. A rich variety of joint models, active constraints, as well as active and passive force elements is treated. The book is intended for self-study by working engineers and students concerned with the control of mechanical systems, i.e. robotics, mechatronics, vehicles, and machine tools. Its examples can be used as models for university lectures.

Modeling and Simulation with Compose and Activate - Stephen L. Campbell 2018-12-19

This book provides a tutorial in the use of Altair Compose and Altair Activate, software packages that provide system modeling and simulation facilities. Advanced system modeling software provide multiple ways of creating models: models can be programmed in specialized languages, graphically constructed as block-diagrams and state machines, or expressed mathematically in equation-based languages. Compose and Activate are introduced in this text in two parts. The first part introduces the multi-language environment of Compose and its use for modeling, simulation and optimization. The second describes the graphical system modeling and optimization with Activate, an open-system environment providing signal-based modeling as well as physical system component-based modeling. Throughout both parts are applied examples from mechanical, biological, and electrical systems, as well as control and signal processing systems. This book will be an invaluable addition with many examples both for those just interested in OML and those doing industrial scale modeling, simulation, and design. All examples are worked using the free basic editions of Activate and Compose that are available.

The Quality of Democracy in Korea - Hannes B. Mosler 2017-11-15

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This edited volume assesses the quality of democracy in the Republic of Korea three decades after its formal democratization in 1987. It has been argued that Korea's two subsequent power turnovers prove that its democracy has been successfully consolidated, despite its tremendous progress; however, recent developments show signs of deterioration and retreat. Therefore, drawing on the recent quality of democracy literature this volume sets out to answer the question: Where does Korea's democratic quality stand today? The three chapters in first section of the book focus on aspects related to the presidency, political parties, and organized labor, also including the perspective of governance and human security as well as on the rule of law regarding the role and function of the prosecution. This is followed by a set of four chapters in section two that address the dimensions of democratic quality such as participation, freedom, equality, and responsiveness. The final, third section includes contributions on related inter-Korean policy issues. This book is an invaluable resource for political and social scientist working on democratic quality, and at the same for scholars in Asian or Korean Studies at faculty level as well as on graduate student level.

Mechanical Vibration - Haym Benaroya 2017-08-29

Mechanical Vibration: Analysis, Uncertainties, and Control, Fourth Edition addresses the principles and application of vibration theory. Equations for modeling vibrating systems are explained, and MATLAB® is referenced as an analysis tool. The Fourth Edition adds more coverage of damping, new case studies, and development of the control aspects in vibration analysis. A MATLAB appendix has also been added to help students with computational analysis. This work includes example problems and explanatory figures, biographies of renowned contributors, and access to a website providing supplementary resources.

XXI DAE-BRNS High Energy Physics Symposium - Bipul Bhuyan 2015-12-30

These proceedings gather invited and contributed talks presented at the XXI DAE-BRNS High Energy Physics Symposium, which was held at the Indian Institute of Technology Guwahati in December 2014. The contributions cover many of the most active research areas in particle physics, namely (i) Electroweak Physics; (ii) QCD and Heavy Ion Physics; (iii) Heavy Flavour Physics and CP Violation; (iv) Neutrino Physics; (v) Astro-particle Physics and Cosmology; (vi) Formal Theory; (vii) Future Colliders and New Machines; and (viii) BSM Physics: SUSY, Extra Dimensions, Composites etc. The DAE-BRNS High Energy Physics Symposium, widely considered to be one of the premiere symposiums organised in India in the field of elementary particle physics, is held every other year and supported by the Board of Research in Nuclear Sciences, Department of Atomic Energy, India. Roughly 250 physicists and researchers participated in the 21st Symposium, discussing the latest advancements in the field in 18 plenary review talks, 15 invited mini-review talks and approximately 130 contributed presentations. Bringing together the essential content, the book offers a valuable resource for both beginning and advanced researchers in the field.

Surveys in Differential-Algebraic Equations III - Achim Ilchmann 2015-10-29

The present volume comprises survey articles on various fields of Differential-Algebraic Equations (DAEs), which have widespread applications in controlled dynamical systems, especially in mechanical and electrical engineering and a strong relation to (ordinary) differential equations. The individual chapters provide reviews, presentations of the current state of research and new concepts in - Flexibility of DAE formulations - Reachability analysis and deterministic global optimization - Numerical linear algebra methods - Boundary value problems The results are presented in an accessible style, making this book suitable not only for active researchers but also for graduate students (with a good knowledge of the basic principles of DAEs) for self-study.

Advances in Design Automation, 1989: Mechanical systems analysis, design, and simulation - Bahram Ravani 1989

Structural Safety and Reliability - Naruhito Shiraishi 1998

Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations - K. E. Brenan 1996-01-01

This book describes some of the places where differential-algebraic equations (DAE's) occur.

The Theory of 2-Structures - A Ehrenfeucht 1999-08-30

The theory of 2-structures provides a convenient framework for decomposition and transformation of mathematical systems where one or several different binary relationships hold between the objects of the system. In particular, it forms a useful framework for decomposition and transformation of graphs. The decomposition methods presented in this book correspond closely to the top-down design methods studied in computer science. The transformation methods considered here have a natural interpretation in the dynamic evolution of certain kinds of communication networks. From the mathematical point of view, the clan decomposition method presented here, also known as modular decomposition or substitution decomposition, is closely related to the decomposition by quotients in algebra. The transformation method presented here is based on labelled 2-structures over groups, the theory of which generalizes the well-studied theory of switching classes of graphs. This book is both a text and a monograph. As a monograph, the results concerning the decomposition and transformation of 2-structures are presented in a unified way. In addition, detailed notes on references are provided at the end of each chapter. These notes allow the reader to trace the origin of many notions and results, and to browse through the literature in order to extend the material presented in the book. To facilitate its use as a textbook, there are numerous examples and exercises which provide an opportunity for the reader to check his or her understanding of the discussed material. Furthermore, the text begins with preliminaries on partial orders, semigroups, groups and graphs to the extent needed for the book. Request Inspection Copy

Advances in Structural Engineering - Vasant Matsagar 2014-12-12

The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Molecular and Laser Spectroscopy - V.P. Gupta 2017-09-18

Molecular and Laser Spectroscopy: Advances and Applications provides students and researchers with an up-to-date understanding of the fast-developing area of molecular and laser spectroscopy. Editor V.P. Gupta has brought together the eminent scientists on a selection of topics to develop a systematic approach, first covering basic principles needed to understand each cutting-edge technique and application. This book acts as a standard reference for advanced students of molecular and laser spectroscopy and as a graduate text for new entrants in the field. The book covers a wide range of applications of molecular and laser spectroscopy in diverse areas ranging from materials to medicine and defence, biomedical research, environmental monitoring, forensic investigations, food and agriculture, and chemical, pharmaceutical and petrochemical processes. Researchers and scientific personnel in these fields will learn the latest techniques in order to put them to practical use in their work. Covers several areas of spectroscopy research in a single volume, saving researchers time Includes exhaustive lists of research articles, reviews and books at the end of each chapter to point readers in the right direction for further learning Features illustrative examples of the varied applications Serves as a practical guide to those interested in using molecular and laser spectroscopy tools in their research and field applications

The Molecular Mechanism Behind Synaptic Transmission - Jiajie Diao 2020-05-05

The Shock and Vibration Bulletin - 1986-08

IJERPH - Paul B. Tchounwou 2020-12-21

Next year (2018), we will be celebrating the 15th anniversary of the International Journal of Environmental Research and Public Health—IJERPH (ISSN 1660-4601). Hence, we are currently organizing a Special Issue to commemorate this important milestone. Founded in 2004, IJERPH has experienced a tremendous growth in terms of the number and quality of scientific publications. With a 2016 impact factor of 2.101, IJERPH now ranks among the top international journals in the emerging field of environmental research and public health. As described on our website (https://www.mdpi.com/journal/ijerph), IJERPH is a peer-reviewed journal that focuses on the publication of scientific and technical information on the impacts of natural phenomena and anthropogenic factors on the quality of our environment, the interrelationships between environmental health and the quality of life,

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as well as the socio-cultural, political, economic, and legal considerations related to environmental stewardship and public health. Its primary areas of research interests include: Gene-environment interactions Environmental genomics and proteomics Environmental toxicology, mutagenesis and carcinogenesis Environmental epidemiology and disease control Health risk assessment and management Ecotoxicology, and ecological risk assessment and management Natural resources damage assessment Environmental chemistry and computational modeling Environmental policy and management Environmental engineering and biotechnology Emerging issues in environmental health and diseases Environmental education and public health To help celebrate the 15th anniversary, you are kindly invited to submit original articles, critical reviews, research notes, and short communications on any of the above-listed topics. Please also encourage any of our colleagues who may be interested to submit manuscripts. We expect that this issue will attract considerable attention, as we prepare to celebrate the excellent scientific contributions and socio-economic impacts of IJERPH over the past 15 years.

Molecular-Scale Electronics - Xuefeng Guo 2018-12-06

The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

IUTAM Symposium on Dynamics Modeling and Interaction Control in Virtual and Real Environments - Gábor Stépán 2011-07-01

This volume contains the invited papers presented at the IUTAM Symposium on Multibody Dynamics and Interaction Control in Virtual and Real Environments held in Budapest, Hungary, June 7−11 2010. The symposium aimed to bring together specialists in the fields of multibody system modeling, contact/collision mechanics and control of mechanical systems. The offered topics included modeling aspects, mechanical and mathematical models, the question of neglections and simplifications, reduction of large systems, interaction with environment like air, water and obstacles, contact of all types, control concepts, control stability and optimization. Discussions between experts in these fields made it possible to exchange ideas about the recent advances in multibody system modeling and interaction control, as well as about the possible future trends. The presentations of recent scientific results may facilitate the interaction between scientific areas like system/control engineering and mechanical engineering. Papers on dynamics modeling and interaction control were selected to cover the main areas: mathematical modeling, dynamic analysis, friction modeling, solid and thermomechanical aspects, and applications. A significant outcome of the meeting was the opening towards applications that are of key importance to the future of nonlinear dynamics.

Structure and Interpretation of Computer Programs - 2nd Edition - Harold Abelson

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Proceedings of 8th GACM Colloquium on Computational Mechanics - Tobias Gleim 2019-09-04

This conference book contains papers presented at the 8th GACM Colloquium on Computational Mechanics for Young Scientists from Academia and Industry. The conference was held from August 28th – 30th, 2019 in Kassel, hosted by the Institute of Mechanics and Dynamics of the department for civil and environmental engineering and by the chair of Engineering Mechanics / Continuum Mechanics of the department for mechanical engineering of the University of Kassel. The aim of the conference is, to bring together young scientits who are engaged in academic and industrial research on Computational Mechanics and Computer Methods in Applied Sciences. It provides a plattform to present and discuss recent results from research efforts and industrial applications. In more than 150 presentations, given by young scientists, current scientific developments and advances in engineering practice in this field are presented and discussed. The contributions of the young researchers are supplemented by a poster session and plenary talks from four senior scientists from academia and industry as well as from the GACM Best PhD Award winners 2017 and 2018.

South Asian Cultures of the Bomb - Itty Abraham 2009-03-26

Since their founding as independent nations, nuclear issues have been key elements of nationalism and the public sphere in both India and Pakistan. Yet the relationship between nuclear arms and civil society in the region is seldom taken into account in conventional security studies. These original and provocative essays examine the political and ideological components of national drives to possess and test nuclear weapons. Equal coverage for comparable issues in each country frames the volume as a genuine dialogue across this contested boundary.

Applied Mechanics Reviews - 1993

Computer-aided Analysis of Rigid and Flexible Mechanical Systems - Manuel F. O. Seabra Pereira 1994

This book contains the edited version of the lectures presented at the NATO Advanced Study Institute on computer-aided analysis of rigid and flexible mechanical systems, held in Troacuteia, Portugal, from June 27-July 9, 1993. The topics presented include formulations and numerical aspects of rigid and flexible multibody dynamics, object-oriented paradigms, optimal design and synthesis, robotics, kinematics, path planning, control, impact dynamics and aspects of application."

STAR - 1990-08

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