SYSTEMS AND CONTROL



J. Michael McCarthy



Geometric Design Of Linkages Interdisciplinary Applied Mathematics

Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman

Geometric Design Of Linkages Interdisciplinary Applied Mathematics:

Geometric Design of Linkages J. Michael McCarthy,2000-04-26 An introduction to the mathematical theory of design for articulated mechanical systems known as linkages This book will be useful to mathematics engineering and computer science departments that teach courses on mathematical modelling of robotics and other articulated mechanical systems

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Handbook of Geometric Constraint Systems Principles Meera Sitharam, Audrey St. John, Jessica Sidman, 2018-07-20 The Handbook of Geometric Constraint Systems Principles is an entry point to the currently used principal mathematical and computational tools and techniques of the geometric constraint system GCS It functions as a single source containing the core principles and results accessible to both beginners and experts The handbook provides a guide for students learning basic concepts as well as experts looking to pinpoint specific results or approaches in the broad landscape As such the editors created this handbook to serve as a useful tool for navigating the varied concepts approaches and results found in GCS research Key Features A comprehensive reference handbook authored by top researchers Includes fundamentals and techniques from multiple perspectives that span several research communities Provides recent results and a graded program of open problems and conjectures Can be used for senior undergraduate or graduate topics course introduction to the area Detailed list of figures and tables About the Editors Meera Sitharam is currently an Associate Professor at the University of Florida's Department of Computer Information Science and Engineering She received her Ph D at the University of Wisconsin Madison Audrey St John is an Associate Professor of Computer Science at Mount Holyoke College who received her Ph D from UMass Amherst Jessica Sidman is a Professor of Mathematics on the John S Kennedy Foundation at Mount Holyoke College She received her Ph D from the University of Michigan Proceedings of MSR-RoManSy 2024 Pierre Larochelle, J. Michael McCarthy, Craig P. Lusk, 2024-05-28 This book gathers the latest fundamental research contributions innovations and applications in the field of design and analysis of complex robotic mechanical systems machines and mechanisms as presented by leading researchers at the combined IFToMM Symposium of RoManSy and USCToMM Symposium on Mechanical Systems and Robotics MSR RoManSy held in St Petersburg FL USA on May 22 25 2024 It covers highly diverse topics including soft wearable and origami robotic systems applications to walking flying climbing underground swimming and space systems human rehabilitation and performance augmentation design and analysis of mechanisms and machines human robot collaborative systems service robotics mechanical systems and robotics education and the commercialization of mechanical systems and robotics The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting and impactful research results that will inspire novel research directions and foster multidisciplinary research collaborations among researchers from around the globe

Interdisciplinary Applications of Kinematics Andrés Kecskeméthy, Francisco Geu Flores, 2014-11-01 This book collects a number of important contributions presented during the Second Conference on Interdisciplinary Applications of Kinematics

IAK 2013 held in Lima Peru The conference brought together scientists from several research fields such as computational kinematics multibody systems industrial machines robotics biomechanics mechatronics computational chemistry and vibration analysis and embraced all key aspects of kinematics namely theoretical methods modeling optimization experimental validation industrial applications and design Kinematics is an exciting area of computational mechanics and plays a central role in a great variety of fields and industrial applications nowadays Apart from research in pure kinematics the field deals with problems of practical relevance that need to be solved in an interdisciplinary manner in order for new technologies to develop The results presented in this book should be of interest for practicing and research engineers as well as Ph D students from the fields of mechanical and electrical engineering computer science and computer graphics

Kinematic Differential Geometry and Saddle Synthesis of Linkages Delun Wang, Wei Wang, 2015-07-27 With a pioneering methodology the book covers the fundamental aspects of kinematic analysis and synthesis of linkage and provides a theoretical foundation for engineers and researchers in mechanisms design The first book to propose a complete curvature theory for planar spherical and spatial motion Treatment of the synthesis of linkages with a novel approach Well structured format with chapters introducing clearly distinguishable concepts following in a logical sequence dealing with planar spherical and spatial motion Presents a pioneering methodology by a recognized expert in the field and brought up to date with the latest research and findings Fundamental theory and application examples are supplied fully illustrated throughout

The Configuration Space Method for Kinematic Design of Mechanisms Elisha Sacks, Leo Joskowicz, 2010 A novel algorithmic approach to mechanism design based on a geometric representation of kinematic function called configuration space partitions This book presents the configuration space method for computer aided design of mechanisms with changing part contacts Configuration space is a complete and compact geometric representation of part motions and part interactions that supports the core mechanism design tasks of analysis synthesis and tolerancing It is the first general algorithmic treatment of the kinematics of higher pairs with changing contacts It will help designers detect and correct design flaws and unexpected kinematic behaviors as demonstrated in the book s four case studies taken from industry After presenting the configuration space framework and algorithms for mechanism kinematics the authors describe algorithms for kinematic analysis tolerancing and synthesis based on configuration spaces The case studies follow illustrating the application of the configuration space method to the analysis and design of automotive micro mechanical and optical mechanisms Appendixes offer a catalog of higher pair mechanisms and a description of HIPAIR an open source C mechanical design system that implements some of the configuration space methods described in the book including configuration space visualization and kinematic simulation HIPAIR comes with an interactive graphical user interface and many sample mechanism input files The Configuration Space Method for Kinematic Design of Mechanisms will be a valuable resource for students researchers and engineers in mechanical engineering computer science and robotics **Handbook of Discrete and Computational**

Geometry Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years. This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography Advances in Mechanism and Machine Science Tadeusz Uhl, 2019-06-13 This book gathers the proceedings of the 15th IFToMM World Congress which was held in Krakow Poland from June 30 to July 4 2019 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations Polyhedral and Algebraic Methods in Computational Geometry Michael Joswig, Thorsten Theobald, 2013-01-04 Polyhedral and Algebraic Methods in Computational Geometry provides a thorough introduction into algorithmic geometry and its applications It presents its primary topics from the viewpoints of discrete convex and elementary algebraic geometry. The first part of the book studies classical problems and techniques that refer to polyhedral structures. The authors include a study on algorithms for computing convex hulls as well as the construction of Voronoi diagrams and Delone triangulations The second part of the book develops the primary concepts of non linear computational algebraic geometry. Here the book looks at Gr bner bases and solving systems of polynomial equations The theory is illustrated by applications in computer graphics curve reconstruction and robotics Throughout the book interconnections between computational geometry and other disciplines such as algebraic geometry optimization and numerical mathematics are established Polyhedral and Algebraic Methods in Computational Geometry is directed towards advanced undergraduates in mathematics and computer science as well as towards engineering students who are interested in the applications of computational geometry Proceedings of the 2020

USCToMM Symposium on Mechanical Systems and Robotics Pierre Larochelle, J. Michael McCarthy, 2020-04-20 This volume gathers the latest fundamental research contributions innovations and applications in the field of design and analysis of complex robotic mechanical systems machines and mechanisms as presented by leading international researchers at the 1st USCToMM Symposium on Mechanical Systems and Robotics USCToMM MSR 2020 held in Rapid City South Dakota USA on May 14 16 2020 It covers highly diverse topics including soft wearable and origami robotic systems applications to walking flying climbing underground swimming and space systems human rehabilitation and performance augmentation design and analysis of mechanisms and machines human robot collaborative systems service robotics mechanical systems and robotics education and the commercialization of mechanical systems and robotics The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting and impactful research results that will inspire novel research directions and foster multidisciplinary research collaborations among researchers from around the globe

Origami 4 Robert J. Lang, 2009-08-05 The connections between origami mathematics science technology and education have been a topic of considerable interest now for several decades While many individuals have happened upon discrete connections among these fields during the twentieth century the field really took off when previously isolated individuals began to make stronger con Software for Algebraic Geometry Michael E. Stillman, Nobuki Takayama, Jan Verschelde, 2008-05-29 Algorithms in algebraic geometry go hand in hand with software packages that implement them Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications Over the past fifteen years several excellent general purpose packages for computations in algebraic geometry have been developed such as CoCoA Singular and Macaulay 2 While these packages evolve continuously incorporating new mathematical advances they both motivate and demand the creation of new mathematics and smarter algorithms This volume reflects the workshop Software for Algebraic Geometry held in the week from 23 to 27 October 2006 as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA The papers in this volume describe the software packages Bertini PHClab Gfan DEMiCs SYNAPS TrIm Gambit ApaTools and the application of Risa Asir to a conjecture on multiple zeta values They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications **Nonlinear Computational** Geometry Ioannis Z. Emiris, Frank Sottile, Thorsten Theobald, 2009-10-28 An original motivation for algebraic geometry was to understand curves and surfaces in three dimensions Recent theoretical and technological advances in areas such as robotics computer vision computer aided geometric design and molecular biology together with the increased availability of computational resources have brought these original questions once more into the forefront of research One particular challenge is to combine applicable methods from algebraic geometry with proven techniques from piecewise linear computational geometry such as Voronoi diagrams and hyperplane arrangements to develop tools for treating curved objects

These research efforts may be summarized under the term nonlinear computational geometry. This volume grew out of an IMA workshop on Nonlinear Computational Geometry in May June 2007 organized by I Z Emiris R Goldman F Sottile T The obald which gathered leading experts in this emerging field. The research and expository articles in the volume are intended to provide an overview of nonlinear computational geometry Since the topic involves computational geometry algebraic geometry and geometric modeling the volume has contributions from all of these areas By addressing a broad range of issues from purely theoretical and algorithmic problems to implementation and practical applications this volume Advances in Robot Kinematics Jadran Lenarčič, Oussama Khatib, 2014-05-19 conveys the spirit of the IMA workshop The topics addressed in this book cover the whole range of kinematic analysis synthesis and design and consider robotic systems possessing serial parallel and cable driven mechanisms. The robotic systems range from being less than fully mobile to kinematically redundant to over constrained The fifty six contributions report the latest results in robot kinematics with emphasis on emerging areas such as design and control of humanoids or humanoid subsystems. The book is of interest to researchers wanting to bring their knowledge up to date regarding modern topics in one of the basic disciplines in robotics which relates to the essential property of robots the motion of mechanisms **Geometry and Topology in Hamiltonian Dynamics and Statistical Mechanics** Marco Pettini, 2007-06-14

Itisaspecialpleasureformetowritethisforewordforaremarkablebookbya remarkableauthor MarcoPettiniisadeepthinker whohasspentmanyyears probing the foundations of Hamiltonian chaos and statistical mechanics in particular phase transitions from the point of view of geometry and topology Itisinparticular the quality of mind of the author and his deep physical as well as mathematical insights which make this book so special and inspiring It is a must for those who want to venture into a new approach to old problems or want to use new tools for new problems Although topology has penetrated a number of elds of physics a broad participation of topology in the clarication and progress of fundamental progress of the above mentioned elds has been lacking The new perspectives topology gives to the above mentioned problems are bound to help in their clari cation and to spread to other elds of science The sparsity of geometric thinking and of its use to solve fundamental problems when compared with purely analytical methods in physics could be relieved and made highly productive using the material discussed in this book It is unavoidable that the physicist reader may have then to learn some new mathematics and be challenged to a new way of thinking but with the author as a guide he is assured of the best help in achieving this that is presently available **Innovating STEM Education: Increased Engagement and Best Practices** Eugenia Koleza, Christos Panagiotakopoulos, Constantine Skordoulis, 2022-09-15 In recent years there has been a focus on promoting the uptake of STEM subjects in schools This has been driven by the need to ensure that young people gain the knowledge and skills essential to help them participate in a society in which mathematics science and technology are increasingly important Nevertheless reform efforts including curriculum development have treated the STEM subjects mostly in isolation

Recognizing that efforts for education within each individual STEM discipline would encourage a wide range of conservations about different important aspects of teaching and learning this conference considered the potential benefits and challenges for the integration of various STEM s characteristics into education In order to prepare students to address the problems of our society it is necessary to provide them with opportunities to understand these problems through rich engaging and powerful experiences that integrate the disciplines of STEM This volume contains selected papers presented at the Hellenic Conferences Innovating STEM education HiSTEM 2016 and 2018 organized by the Postgraduate Program Interdisciplinary Approach on Science Technology Engineering and Mathematics in Education STEM Education stemeducation upatras gr The first eleven papers were presented at the HiSTEM 2016 Conference and the last six papers at the HiSTEM 2018 Conference These papers were selected after a peer review process from the conferences submitted papers. The conferences provided a platform for dissemination of best practices in teaching and learning STEM in Greece and also inspired and empowered STEM educators to improve teaching quality to increase engagement in STEM education and career pathways to connect students with real life industry relevancy and to drive creativity inquiry based learning problem solving and project based Mathematical Physiology James Keener, James Sneyd, 2010-06-04 Divided into two volumes the book begins with learning a pedagogical presentation of some of the basic theory with chapters on biochemical reactions diffusion excitability wave propagation and cellular homeostasis The second more extensive part discusses particular physiological systems with chapters on calcium dynamics bursting oscillations and secretion cardiac cells muscles intercellular communication the circulatory system the immune system wound healing the respiratory system the visual system hormone physiology renal physiology digestion the visual system and hearing New chapters on Calcium Dynamics Neuroendocrine Cells and Regulation of Cell Function have been included Reviews from first edition Keener and Sneyd's Mathematical Physiology is the first comprehensive text of its kind that deals exclusively with the interplay between mathematics and physiology Writing a book like this is an audacious act Society of Mathematical Biology Keener and Sneyd's is unique in that it attempts to present one of the most important subfields of biology and medicine physiology in terms of mathematical language rather than organizing materials around mathematical methodology SIAM review Lagrangian Transport in Geophysical Jets and Waves Roger M. Samelson, Stephen Wiggins, 2006-11-24 Written jointly by a specialist in geophysical fluid dynamics and an applied mathematician this is the first accessible introduction to a new set of methods for analysing Lagrangian motion in geophysical flows The book opens by establishing context and fundamental mathematical concepts and definitions exploring simple cases of steady flow and touching on important topics from the classical theory of Hamiltonian systems Subsequent chapters examine the elements and methods of Lagrangian transport analysis in time dependent flows The concluding chapter offers a brief survey of rapidly evolving research in geophysical fluid dynamics that makes use of this new approach

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