Robot Hands And The Mechanics Of Manipulation

Dan Zhang,Bin Wei

Robot Hands And The Mechanics Of Manipulation:

Robot Hands and the Mechanics of Manipulation Matthew T. Mason,J. Kenneth Salisbury,1985-01 Robot Hands and the Mechanics of Manipulationexplores several aspects of the basic mechanics of grasping pushing and in general manipulating objects It makes a significant contribution to the understanding of the motion of objects in the presence of friction and to the development of fine position and force controlled articulated hands capable of doing useful work In the book s first section kinematic and force analysis is applied to the problem of designing and controlling articulated hands for manipulation The analysis of the interface between fingertip and grasped object then becomes the basis for the specification of acceptable hand kinematics A practical result of this work has been the development of the Stanford JPL robot hand a tendon actuated 9 degree of freedom hand which is being used at various laboratories around the country to study the associated control and programming problems aimed at improving robot dexterity Chapters in the second section study the characteristics of object motion in the presence of friction Systematic exploration of the mechanics of pushing leads to a model of how an object moves under the combined influence of the manipulator and the forces of sliding friction The results of these analyses are then used to demonstrate verification and automatic planning of some simple manipulator operations Matthew T Mason is Assistant Professor of Computer Science at Carnegie Mellon University and coeditor of Robot Motion MIT Press 1983 J Kenneth Salisbury Jr is a Research Scientist at MIT s Artificial Intelligence Laboratory and president of Salisbury Robotics Inc Robot Hands and the Mechanics of Manipulationis 14th in the Artificial Intelligence Series edited by Patrick Henry Winston and Michael Brady **Springer Handbook of Robotics** Bruno Siciliano,Oussama Khatib,2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization s Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an

extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook s team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal http handbookofrobotics org Modelling and Control of Robot Manipulators Lorenzo Sciavicco,Bruno Siciliano,2001-02-19 Fundamental and technological topics are blended uniquely and developed clearly in nine chapters with a gradually increasing level of complexity A wide variety of relevant problems is raised throughout and the proper tools to find engineering oriented solutions are introduced and explained step by step Fundamental coverage includes Kinematics Statics and dynamics of manipulators Trajectory planning and motion control in free space Technological aspects include Actuators Sensors Hardware software control architectures Industrial robot control algorithms Furthermore established research results involving description of end effector orientation closed kinematic chains kinematic redundancy and singularities dynamic parameter identification robust and adaptive control and force motion control are provided To provide readers with a homogeneous background three appendices are included on Linear algebra Rigid body mechanics Feedback control To acquire practical skill more than 50 examples and case studies are carefully worked out and interwoven through the text with frequent resort to simulation In addition more than 80 end of chapter exercises are proposed and the book is accompanied by a solutions manual containing the MATLAB code for computer problems this is available from the publisher free of charge to those adopting this work as a textbook for courses **The Human Hand as an Inspiration for Robot Hand Development** Ravi Balasubramanian,Veronica J. Santos,2014-01-03 The Human Hand as an Inspiration for Robot Hand Development presents an edited collection of authoritative contributions in the area of robot hands The results described in the volume are expected to lead to more robust dependable and inexpensive distributed systems such as those endowed with complex and advanced sensing actuation computation and communication capabilities The twenty four chapters discuss the field of robotic grasping and manipulation viewed in light of the human hand s capabilities and push the state of the art in robot hand design and control Topics discussed include human hand biomechanics neural control sensory feedback and perception and robotic grasp and manipulation This book will be useful for researchers from diverse areas such as robotics biomechanics neuroscience and anthropologists *From Robot to Human Grasping Simulation* Beatriz León,Antonio Morales,Joaquín Sancho-Bru,2013-09-29 The human hand and its dexterity in grasping and manipulating objects are some of the hallmarks of the human species For years anatomic and biomechanical studies have deepened the understanding of the human hand s functioning and in parallel the robotics community has been working on the design of robotic hands capable of manipulating objects with a performance similar to that of the human hand However although many researchers have partially studied various aspects to date there has been no comprehensive characterization of the human

hand s function for grasping and manipulation of everyday life objects This monograph explores the hypothesis that the confluence of both scientific fields the biomechanical study of the human hand and the analysis of robotic manipulation of objects would greatly benefit and advance both disciplines through simulation Therefore in this book the current knowledge of robotics and biomechanics guides the design and implementation of a simulation framework focused on manipulation interactions that allows the study of the grasp through simulation As a result a valuable framework for the study of the grasp with relevant applications in several fields such as robotics biomechanics ergonomics rehabilitation and medicine has been made available to these communities *Robot Hands And Multi-fingered Haptic Interfaces: Fundamentals And Applications* Haruhisa Kawasaki,2015-03-04 Robot Hands and Multi Fingered Haptic Interfaces is a monograph focusing on the comparison of human hands with robot hands the fundamentals behind designing and creating the latter and robotics latest advancements in haptic technology This work discusses the design of robot hands contact models at grasping kinematic models of constraint dynamic models of the multi fingered hand the stability theorem of non linear control systems robot hand control design and control of multi fingered haptic interfaces application systems using multi fingered haptic interfaces and telecontrol of robot hands using a multi fingered haptic interface Robot Hands and Multi Fingered Haptic Interfaces is intended mainly for readers who have a foundation in basic robot arm engineering To understand robot hand manipulation readers must study kinematic constraint models of fingers hand dynamics with constraints stability theorems of non linear control and multi fingered hand control this book will benefit readers understanding of this full range of issues regarding robot hand manipulation **Robot Control 1988 (SYROCO'88)** U. Rembold,2014-05-23 Containing 88 papers the emphasis of this volume is on the control of advanced robots These robots may be self contained or part of a system The applications of such robots vary from manufacturing assembly and material handling to space work and rescue operations Topics presented at the Symposium included sensors and robot vision systems as well as the planning and control of robot actions Main topics covered include the design of control systems and their implementation advanced sensors and multisensor systems explicit robot programming implicit task orientated robot programming interaction between programming and control systems simulation as a programming aid AI techniques for advanced robot systems and autonomous robots Robots and Biological Systems: Towards a New Bionics? Paolo Dario,Giulio Sandini,Patrick Aebischer,2012-12-06 Bionics evolved in the 1960s as a framework to pursue the development of artificial systems based on the study of biological systems Numerous disciplines and technologies including artificial intelligence and learningdevices information processing systems architecture and control perception sensory mechanisms and bioenergetics contributed to bionics research This volume is based on a NATO Advanced Research Workshop within the Special Programme on Sensory Systems for Robotic Control held in Il Ciocco Italy in June 1989 A consensus emerged at the workshop and is reflected in the book on the value of learning from nature in order to derive guidelines for the design of intelligent machines which operate

in unstructured environments The papers in the book are grouped into seven chapters vision and dynamic systems hands and tactile perception locomotion intelligent motor control design technologies interfacing robots to nervous systems and robot societies and self organization **Robot Manipulators** Agustin Jimenez,Basil M. Al Hadithi,2010-03-01 This book presents the most recent research advances in robot manipulators It offers a complete survey to the kinematic and dynamic modelling simulation computer vision software engineering optimization and design of control algorithms applied for robotic systems It is devoted for a large scale of applications such as manufacturing manipulation medicine and automation Several control methods are included such as optimal adaptive robust force fuzzy and neural network control strategies The trajectory planning is discussed in details for point to point and path motions control The results in obtained in this book are expected to be of great interest for researchers engineers scientists and students in engineering studies and industrial sectors related to robot modelling design control and application The book also details theoretical mathematical and practical requirements for mathematicians and control engineers It surveys recent techniques in modelling computer simulation and implementation of advanced and intelligent controllers **Dextrous Robot Hands** Subramanian T. Venkataraman,Thea Iberall,2012-12-06 Manipulation using dextrous robot hands has been an exciting yet frustrating research topic for the last several years While significant progress has occurred in the design construction and low level control of robotic hands researchers are up against fundamental problems in developing algorithms for real time computations in multi sensory processing and motor control The aim of this book is to explore parallels in sensorimotor integration in dextrous robot and human hands addressing the basic question of how the next generation of dextrous hands should evolve By bringing together experimental psychologists kinesiologists computer scientists electrical engineers and mechanical engineers the book covers topics that range from human hand usage in prehension and exploration to the design and use of robotic sensors and multi fingered hands and to control and computational architectures for dextrous hand usage While the ultimate goal of capturing human hand versatility remains elusive this book makes an important contribution to the design and control of future dextrous robot hands through a simple underlying message a topic as complex as dextrous manipulation would best be addressed by collaborative interdisciplinary research combining high level and low level views drawing parallels between human studies and analytic approaches and integrating sensory data with motor commands As seen in this text success has been made through the establishment of such collaborative efforts The future will hold up to expectations only as researchers become aware of advances in parallel fields and as a common vocabulary emerges from integrated perceptions about manipulation

Underactuated Robotic Hands Lionel Birglen,Thierry Laliberté,Clément M. Gosselin,2008-02-11 This is a cornerstone publication in robotic grasping The authors have developed an internationally recognized expertise in this area Additionally they designed and built several prototypes which attracted the attention of the scientific community The purpose of this book is to summarize years of research and to present in an attractive format the expertise developed by the authors on a new

technology for grasping which has achieved great success both in theory and in practice **Advances in Robot Kinematics and Computational Geometry** Jadran Lenarčič,Bahram Ravani,2013-06-29 Recently research in robot kinematics has attracted researchers with different theoretical profiles and backgrounds such as mechanical and electrica engineering computer science and mathematics It includes topics and problems that are typical for this area and cannot easily be met elsewhere As a result a specialised scientific community has developed concentrating its interest in a broad class of problems in this area and representing a conglomeration of disciplines including mechanics theory of systems algebra and others Usually kinematics is referred to as the branch of mechanics which treats motion of a body without regard to the forces and moments that cause it In robotics kinematics studies the motion of robots for programming control and design purposes It deals with the spatial positions orientations velocities and accelerations of the robotic mechanisms and objects to be manipulated in a robot workspace The objective is to find the most effective mathematical forms for mapping between various types of coordinate systems methods to minimise the numerical complexity of algorithms for real time control schemes and to discover and visualise analytical tools for understanding and evaluation of motion properties ofvarious mechanisms used in a robotic system Robotics Bruno Siciliano,Lorenzo Sciavicco,Luigi Villani,Giuseppe Oriolo,2010-08-20 Based on the successful Modelling and Control of Robot Manipulators by Sciavicco and Siciliano Springer 2000 Robotics provides the basic know how on the foundations of robotics modelling planning and control It has been expanded to include coverage of mobile robots visual control and motion planning A variety of problems is raised throughout and the proper tools to find engineering oriented solutions are introduced and explained The text includes coverage of fundamental topics like kinematics and trajectory planning and related technological aspects including actuators and sensors To impart practical skill examples and case studies are carefully worked out and interwoven through the text with frequent resort to simulation In addition end of chapter exercises are proposed and the book is accompanied by an electronic solutions manual containing the MATLAB code for computer problems this is available free of charge to those adopting this volume as a textbook for courses Intelligent Robots and Systems V. Graefe,1995-09-27 Of the 300 papers presented during IROS 94 48 were selected because they are particularly significant and characteristic for the present state of the technology of intelligent robots and systems This book contains the selected papers in a revised and expanded form Robotics and intelligent systems constitute a very wide and truly interdisciplinary field The papers have been grouped into the following categories Sensing and Perception Learning and Planning Manipulation Telerobotics and Space Robotics Multiple Robots Legged Locomotion Mobile Robot Systems Robotics in MedicineOther additional fields covered include control navigation and simulation Since many researchers in robotics are now apparently interested in some combination of learning mobile robots and robot vision most of the articles included relate to at least one of these fields **Adaptive Control for Robotic Manipulators** Dan Zhang,Bin Wei,2017-02-03 The robotic mechanism and its controller make a complete system As the

robotic mechanism is reconfigured the control system has to be adapted accordingly The need for the reconfiguration usually arises from the changing functional requirements This book will focus on the adaptive control of robotic manipulators to address the changed conditions The aim of the book is to summarise and introduce the state of the art technologies in the field of adaptive control of robotic manipulators in order to improve the methodologies on the adaptive control of robotic manipulators Advances made in the past decades are described in the book including adaptive control theories and design and application of adaptive control to robotic manipulators **Modelling And Control Of Mechanical Systems, Proceedings Of The Workshop** Alessandro Astolfi,David J N Limebeer,Claudio Melchiorri,Antonio Tornambe,Richard B Vinter,1997-06-01 This volume provides a general picture of the current trends in the area of automatic control with particular emphasis on practical problems in the mechanical field For this reason besides theoretical contributions it presents selected lectures on recent developments interesting from an industrial point of view such as automotive robotics motion control and electrical drives a **Grasping in Robotics** Giuseppe Carbone,2012-11-15 Grasping in Robotics contains original contributions in the field of grasping in robotics with a broad multidisciplinary approach This gives the possibility of addressing all the major issues related to robotized grasping including milestones in grasping through the centuries mechanical design issues control issues modelling achievements and issues formulations and software for simulation purposes sensors and vision integration applications in industrial field and non conventional applications including service robotics and agriculture The contributors to this book are experts in their own diverse and wide ranging fields This multidisciplinary approach can help make Grasping in Robotics of interest to a very wide audience In particular it can be a useful reference book for researchers students and users in the wide field of grasping in robotics from many different disciplines including mechanical design hardware design control design user interfaces modelling simulation sensors and humanoid robotics It could even be adopted as a reference textbook in specific PhD courses Fundamentals Of Robotic Grasping And Fixturing (Second Edition) Caihua Xiong,Wen-bin Chen,Han Ding,Youlun Xiong,2025-05-20 This book is uniquely designed for a thorough understanding of the fundamentals of the robotic grasping and fixturing RGF from the multifingered robot hand grasp humanoid robot hand and basic fixture design principle and evaluating and planning of robotic grasping fixturing It also focuses on the modeling and applications of the RGF Three new chapters are added in this edition to cover the relevant basic theories of grasping feature analysis and the new principles of robotic hand design that reproduce the natural motion laws of human hand Compared with existing publications this volume concentrates more on abstract formulation i e mathematical modeling of robotic grasping and fixturing Thus it will be a good reference text for academic researchers manufacturing and industrial engineers and a textbook for engineering graduate students

Robotics Research Georges Giralt,Gerhard Hirzinger,2012-12-06 This publication covers all the topics which are relevant to Advanced Robotics today ranging from Systems Design to Reasoning and Planning It is based on the Seventh

International Symposium on Robotics Research held in Germany on October 21 24th 1995 The papers were written by specialists in the field from the United States Europe Japan Australia and Canada The editors who also chaired this symposium present the latest research results as well as new approaches to long standing problems Robotics Research is a contribution to the emerging concepts methods and tools that shape Robotics The papers range from pure research reports to application oriented studies The topics covered include manipulation control virtual reality motion planning 3D vision and industrial systems issues **Robotics Goes MOOC** Bruno Siciliano,2025-04-30 With the massive and pervasive diffusion of robotics technology in our society we are heading towards a new type of AI which we call Physical AI at the intersection of Robotics with AI that is the science of robots and intelligent machines performing a physical action to help humans in their jobs of daily lives Physical assistance to disabled or elderly people reduction of risks and fatigue at work improvement of production processes of material goods and their sustainability safety efficiency and reduction of environmental impact in transportation of people and goods progress of diagnostic and surgical techniques are all examples of scenarios where the new InterAction Technology IAT is indispensable The interaction between robots and humans must be managed in a safe and reliable manner The robot becomes an ideal assistant like the tool used by a surgeon a craftsman a skilled worker The new generation of robots will co exist the cobots with humans not only in the workplace but gradually in homes and communities providing support in services entertainment education health manufacturing and care As widely discussed above interaction plays a crucial role for the development of modern robotic systems Grasping manipulation and cooperative manipulators are covered in the first part of the third book of the Robotics Goes MOOC project respectively in Chapter 1 by Prattichizzo et al Chapter 2 by Kao et al and Chapter 3 by Caccavale Specific interaction issues along with the development of digital and physical interfaces are dealt with in Chapter 4 by Marchal et al and in Chapter 5 by Croft et al respectively Interaction between robot and human also means that a robot can be worn by a human as presented in Chapter 6 by Vitiello et al A different type of interaction at a cognitive and planning level is the focus of Chapter 7 by Lima devoted to multi robot systems and Chapter 8 by Song et al on networked cloud and fog robotics respectively

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