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Coordinate frames, mapping, and transforms. Symbolic modeling of robots-direct kinematic model. The inverse kinematics. Manipulator differential motion and statics. Dynamic modeling.

Features The book provides a compressive overview of the fundamental skills underlying the mechanism and control of manipulators. Detailed chapter on Velocity Transformations, jacobian and Singularities. Trajectory Planning is developed using both joint space and Cartesian space methods. Dynamic Modeling is treated by Lagrange-Euler and Euler-Newton formulations; complex derivations are put in the appendix to ensure a smooth flow for the reader. A comprehensive chapter on Robotic Control covering control strategies like PD, PID, computed torque control, force and impedance control at an appropriate level. A

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METLAB tutorial on using the package for Robotics is included as an appendix. A full chapter on the industrial applications of robots. All important industrial robot configurations with varying degrees of freedom are covered in various chapters and solved examples. An elaborate chapter (Chapter 9) devoted to Robotic Sensors and Vision. Includes over 50 solved examples and more than 270 simple-to-complex end-of-chapter exercises. Appendix on the underlying maths - Linear Algebra, Moment of Inertia Tensor and Equations of Motion

Written for senior level or first year graduate level robotics courses, this text includes material from traditional mechanical engineering, control theoretical material and computer science. It includes coverage of rigid-body transformations and forward and inverse positional kinematics.

Polymer nanocomposites have revolutionised material performance, most notably in the plastics, automotive and aerospace industries. However, in order to be commercially viable, many of these materials must withstand high temperatures. In this book, leaders in the field outline the mechanisms behind the generation of suitable polymer systems, pulling together recent research to provide a unified and up-to-date

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assessment of recent technological advancements. The text is divided into two clear sections, introducing the reader to the two most important requirements for this material type: thermal stability and flame retardancy. Special attention is paid to practical examples, walking the reader through the numerous commercial applications of thermally stable and flame retardant nanocomposites. With a strong focus on placing theory within commercial context, this unique volume will appeal to practitioners as well as researchers.

Incremental Sheet Forming (ISF) exempts use of dies and reduces cost for manufacturing complex parts. Sheet metal forming is used for producing high-quality components in automotive, aerospace, and medical industries. This book covers the benefits of this new technology, including the process parameters along with various techniques. Each variant of this novel process is discussed along with the requirements of machinery and hardware. In addition, appropriate guidelines are also suggested regarding the relationship between process parameters and aspects of ISF process in order to ensure the applicability of the process on the industrial scale. This book will be a useful asset for researchers, engineers in manufacturing industries, and postgraduate level courses.

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This self-contained introduction to practical robot kinematics and dynamics includes a comprehensive treatment of robot control. It provides background material on terminology and linear transformations, followed by coverage of kinematics and inverse kinematics, dynamics, manipulator control, robust control, force control, use of feedback in nonlinear systems, and adaptive control. Each topic is supported by examples of specific applications. Derivations and proofs are included in many cases. The book includes many worked examples, examples illustrating all aspects of the theory, and problems.

This book is essential reading for the students of Mechanical Engineering. It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready reference. Key Features: "Step-by-Step approach to help students

This book is for researchers, engineers, and students who are willing to understand how humanoid robots move and be controlled. The book starts with an overview of the humanoid robotics research history and state of the art. Then it explains the required mathematics and physics such as kinematics of multi-body system, Zero-Moment Point (ZMP) and its relationship with body motion. Biped walking control is discussed in depth, since it is one of the main interests of humanoid

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robotics. Various topics of the whole body motion generation are also discussed. Finally multi-body dynamics is presented to simulate the complete dynamic behavior of a humanoid robot. Throughout the book, Matlab codes are shown to test the algorithms and to help the reader's understanding.

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Explore the concept of MicroServices and see how MicroServices can be used in bot development. Develop an IoT project, deploy it, and connect it to a bot. In Detail Bots help users to use the language as a UI and interact with the applications from any platform. This book teaches you how to develop real-world bots using Microsoft Bot Framework. The book starts with setting up the Microsoft Bot Framework development environment and emulator, and moves on to building the first bot using Connector and Builder SDK. Explore how to register, connect, test, and publish your bot to the Slack, Skype, and Facebook Messenger platforms. Throughout this book, you will build different types of bots from simple to complex, such as a weather bot, a natural speech and intent processing bot, an Interactive Voice Response (IVR) bot for a bank, a facial expression recognition bot, and more from scratch. These bots were designed and developed to teach you concepts such as text detection, implementing LUIS dialogs, Cortana Intelligence Services, third-party authentication, Rich Text format, Bot State Service, and microServices so you can practice working with the standard development tools such as Visual Studio, Bot Emulator, and Azure. Style and approach This step-by-step guide takes a learn-while-doing approach, delivering the practical knowledge and experience you need to design and build real-world Bots. The concepts come to you on

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an as-needed basis while developing a bot so you increase your programming knowledge and experience at the same time.

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