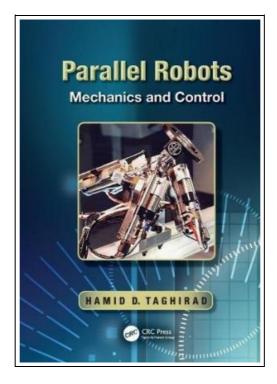
Parallel Robots: Mechanics and Control (Paperback)



Filesize: 7.08 MB

Reviews

It in a single of the best pdf. Of course, it can be enjoy, still an amazing and interesting literature. I discovered this publication from my i and dad encouraged this pdf to learn.

(Baron Steuber)

PARALLEL ROBOTS: MECHANICS AND CONTROL (PAPERBACK)



Taylor Francis Ltd, United Kingdom, 2017. Paperback. Condition: New. Reprint. Language: English. Brand New Book ***** Print on Demand ******. Parallel structures are more effective than serial ones for industrial automation applications that require high precision and stiffness, or a high load capacity relative to robot weight. Although many industrial applications have adopted parallel structures for their design, few textbooks introduce the analysis of such robots in terms of dynamics and control. Filling this gap, Parallel Robots: Mechanics and Control presents a systematic approach to analyze the kinematics, dynamics, and control of parallel robots. It brings together analysis and design tools for engineers and researchers who want to design and implement parallel structures in industry. Covers Kinematics, Dynamics, and Control in One Volume The book begins with the representation of motion of robots and the kinematic analysis of parallel manipulators. Moving beyond static positioning, it then examines a systematic approach to performing Jacobian analysis. A special feature of the book is its detailed coverage of the dynamics and control of parallel manipulators. The text examines dynamic analysis using the Newton-Euler method, the principle of virtual work, and the Lagrange formulations. Finally, the book elaborates on the control of parallel robots, considering both motion and force control. It introduces various model-free and model-based controllers and develops robust and adaptive control schemes. It also addresses redundancy resolution schemes in detail. Analysis and Design Tools to Help You Create Parallel Robots In each chapter, the author revisits the same case studies to show how the techniques may be applied. The case studies include a planar cable-driven parallel robot, part of a promising new generation of parallel structures that will allow for larger workspaces. The MATLAB (R) code used for analysis and simulation is available online. Combining the analysis of kinematics and dynamics with...

- Read Parallel Robots: Mechanics and Control (Paperback) Online
- Download PDF Parallel Robots: Mechanics and Control (Paperback)

See Also



The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: 2007-01-01 Pages: 244 Publisher: Science Press Welcome Our service and quality...

Download eBook »



Ninja Adventure Book: Ninja Book for Kids with Comic Illustration: Fart Book: Ninja Skateboard Farts (Perfect Ninja Books for Boys - Chapter Books for Kids Age 8 - 10 with Comic Pictures Audiobook with Book)

 $Create space, United States, 2013. \ Paperback. \ Book Condition: New. \ 229 x 152 mm. \ Language: English. \ Brand New Book ****** Print on Demand ****** BONUS- Includes FREE Dog Farts Audio Book for Kids Inside! For a...$

Download eBook »



Public Opinion + Conducting Empirical Analysis

SAGE Publications Inc, United States, 2011. Kit. Book Condition: New. Revised ed.. 279 x 217 mm. Language: English . Brand New Book. Public Opinion: One of the central tenets of a democracy is that...

Download eBook »



Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Download eBook »



Children's Educational Book Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Download eBook »