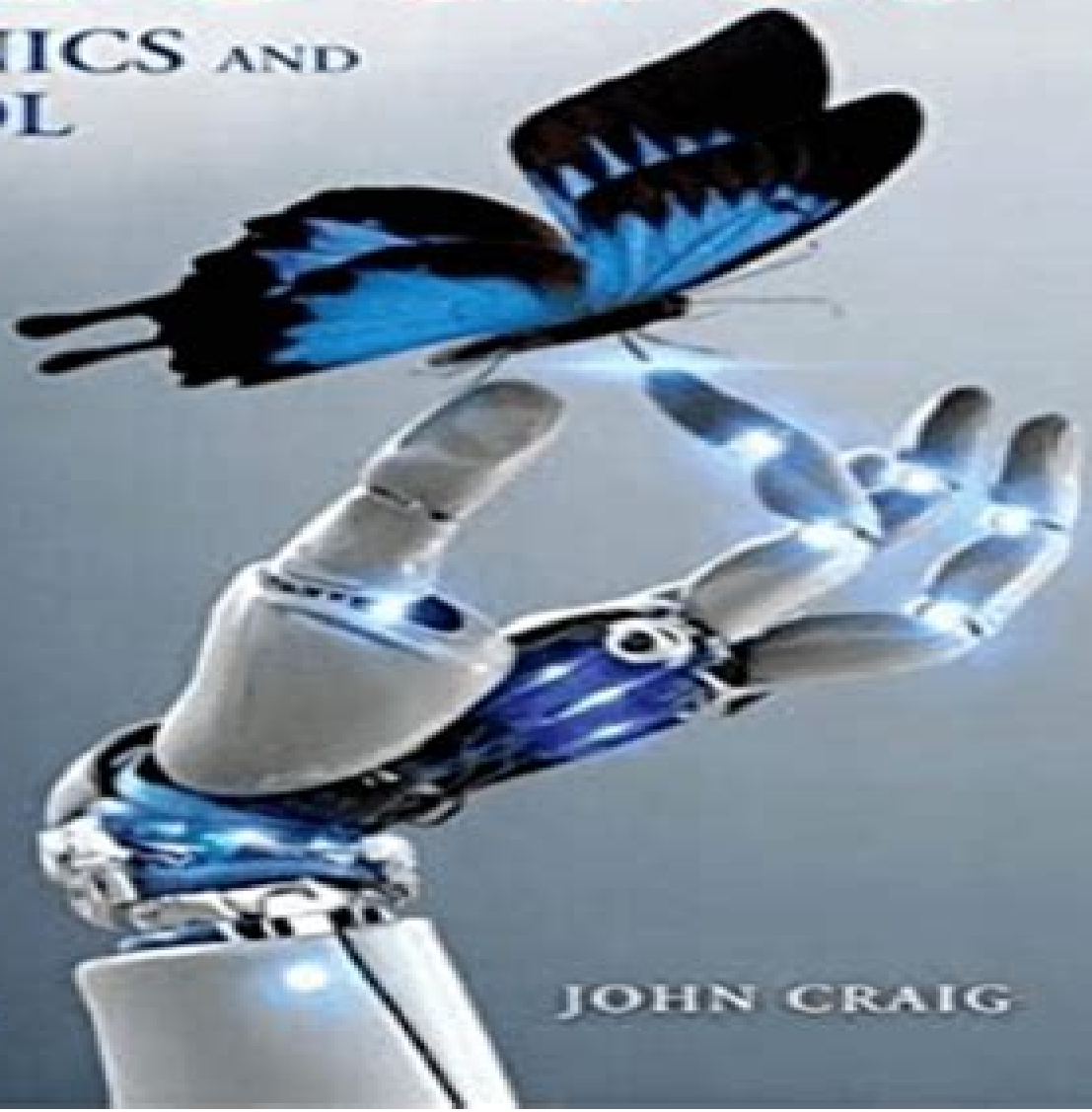


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Python Business Models of the Future Rim El Khoury,2026-01-01 This book provides a comprehensive guide to how digital disruption is fundamentally reshaping existing business models across industries With the pervasive impact of technologies like AI IoT analytics and blockchain it has become crucial for organizations to transform digitally to survive and thrive The book begins by establishing an understanding of key drivers like mobility big data and cloud computing that are enabling new digital business paradigms It then analyzes challenges as well as opportunities presented to companies in this climate of rapid change Readers are equipped to assess their organization s position through frameworks examining data driven strategies and what adaptive customer centric organizational structures most digital enterprises share How agile practices and a culture of experimentation can smooth large scale digital evolutions is also revealed Practical guidance is offered on navigating common obstacles to transformation like legacy infrastructure constraints or privacy regulation compliance Ultimately this comprehensive resource empowers professionals across functions with holistic insights and actionable best practices to strategically lead their enterprises through ongoing digital upheaval and capitalize on new opportunities For any seeking to drive innovation amid today s climate of disruption it presents an indispensable roadmap

Social Robotics + AI Mariacarla Staffa,John-John Cabibihan,Bruno Siciliano,Shuzhi Sam Ge,Leon Bodenhagen,Adriana Tapus,Silvia Rossi,Filippo Cavallo,Laura Fiorini,Marco Matarese,Hongsheng He,2026-01-06 The 3 volume set LNAI 16131 16133 constitutes the refereed proceedings of the 17th International Conference ICSR AI 2025 held in Naples Italy during September 10 12 2025 The 117 full papers and 57 short papers included in the proceedings were carefully reviewed and selected from 276 submissions They focus on the topical sections Part 1 Emotion Applications in Real World Case Studies LLMs Motion Control Prosthetics Context Awareness Ethics Trust Applications in Real World Case Studies LLMs Motion Control Prosthetics Context Awareness Ethics Trust Decision Making Behavior Modeling Part 3 Emotion Trust Autonomy and Cognitive Models Assistive Educational Applications in HRI **Introduction to Robotics** Saeed B. Niku,2010-09-22 Now in its second edition Introduction to Robotics is intended for senior and introductory graduate courses in robotics Designed to meet the needs of different readers this book covers a fair amount of mechanics and kinematics including manipulator kinematics differential motions robot dynamics and trajectory planning It also covers microprocessor applications control systems vision systems sensors and actuators making the book useful to mechanical engineers electronic and electrical engineers computer engineers and engineering technologists A chapter on controls presents enough material to make the understanding of robotic controls and design accessible to those who have yet to take a course in control systems

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Introduction to Robotics, Global Edition John J. Craig, 2021-06-17 For senior year undergraduate and first year graduate courses in robotics An intuitive introduction to robotic theory and application Since its original publication in 1986 Craig's Introduction to Robotics Mechanics and Control has been the leading textbook for teaching robotics at the university level Blending traditional mechanical engineering material with computer science and control theoretical concepts the text covers a range of topics including rigid body transformations forward and inverse positional kinematics velocities and Jacobians of linkages dynamics linear and non linear control force control methodologies mechanical design aspects and robotic programming The 4th Edition features a balance of application and theory introducing the science and engineering of mechanical manipulation establishing and building on foundational understanding of mechanics control theory and computer science With an emphasis on the computational aspects of problems the text aims to present material in a simple intuitive manner

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Biomedical Engineering Systems and Technologies Ana Fred,Hugo Gamboa,2017-03-03 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2016 held in Rome Italy in February 2016 The 22 revised full papers presented were carefully reviewed and selected from a total of 321 submissions The papers are organized in topical sections on biomedical electronics and devices bioimaging bioinformatics models methods and algorithms bio inspired systems and signal processing health informatics *Modern Robotics* Kevin M. Lynch, Frank C. Park,2017-05-25 This introduction to robotics offers a distinct and unified perspective of the mechanics planning and control of robots Ideal for self learning or for courses as it assumes only freshman level physics ordinary differential equations linear algebra and a little bit of computing background Modern Robotics presents the state of the art screw theoretic techniques capturing the most salient physical features of a robot in an intuitive geometrical way With numerous exercises at the end of each chapter accompanying software written to reinforce the concepts in the book and video lectures aimed at changing the classroom experience this is the go to textbook

for learning about this fascinating subject **An Introduction to Robotics Analysis, Systems, Applications** Saeed Benjamin Niku, 2001 This book serves as an introduction to robotics analysis the systems and sub systems that constitute robots and robotic systems and robotics applications All of the fundamentals of robotics are covered robotics analysis including kinematics kinetics and force control and trajectory planning of robots its sub systems such as actuators sensors and vision systems as well as robotics applications Introduction to Robotics also includes many subjects related to mechatronics microprocessor actuator control integration of sensors vision systems and fuzzy logic For practicing mechanical engineers electronic and electric engineers computer engineers and engineering technologists who would like to learn about robotics *ROBOTICS* GURUPRASAD, K. R., 2019-09-01 This book focusses on one of the important classes of Robots known as manipulators or robotic arms and provides a thorough treatment of its kinematics dynamics and control The book also covers the problem of trajectory generation and robot programming The text apart from providing a detailed account of topics such as on taxonomy of robots spatial description of rigid bodies kinematics of manipulator concept of dexterous workspace concept of singularity manipulator dynamics using both the Newton Euler and Lagrangian approaches with a deeper insight into the manipulator dynamics manipulator control and programming additionally encompasses topics on motion planning intelligent control and distributed control of manipulators The book is an excellent learning resource for understanding the complexities of manipulator design analysis and operation It clearly presents ideas without compromising on the mathematical rigour **KEY FEATURES** Full coverage of syllabi of all the Indian universities Based on classroom tested lecture notes Numerous illustrative examples Chapter end problems for brainstorming Primarily designed for students studying Robotics in undergraduate and postgraduate engineering courses in mechanical and mechatronics disciplines the book is also of immense value to the students pursuing research in robotics Instructor Resources PPTs and Solution Manual are also available for the faculty members who adopt the book *Index to IEEE Publications* Institute of Electrical and Electronics Engineers, 1987 Issues for 1973 cover the entire IEEE technical literature **Complete Sourcebook on Children's Software** , 1999

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