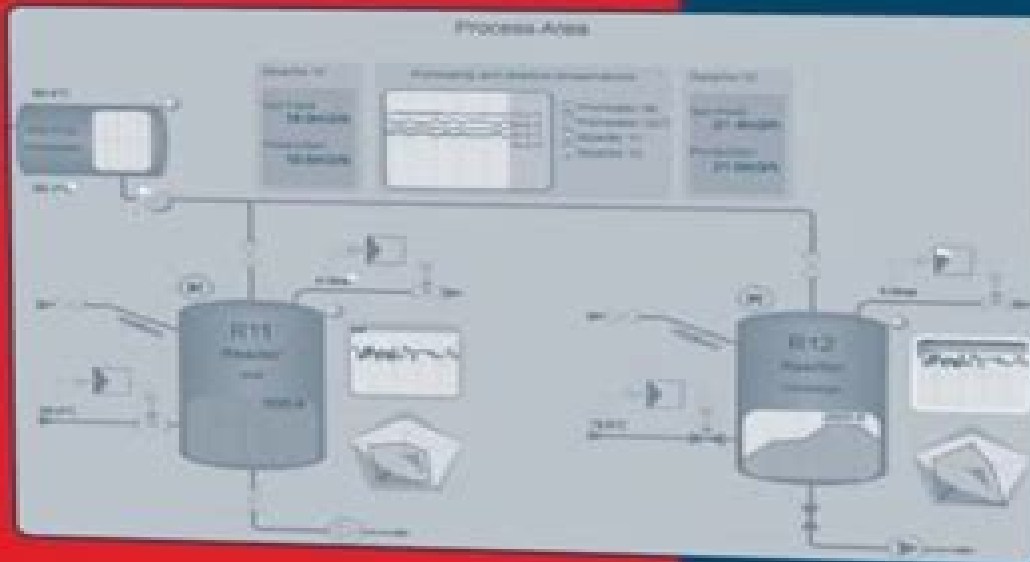


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**Dynamics and Control of Robotic Manipulators with Contact and Friction** Shiping Liu, Gang S. Chen, 2018-11-15 A comprehensive guide to the friction contact and impact on robot control and force feedback mechanism Dynamics and Control of Robotic Manipulators with Contact and Friction offers an authoritative guide to the basic principles of robot dynamics and control with a focus on contact and friction The authors discuss problems in interaction between human and real or virtual robot where dynamics with friction and contact are relevant The book fills a void in the literature with a need for a text that considers the contact and friction generated in robot joints during their movements Designed as a practical resource the text provides the information needed for task planning in view of contact impact and friction for the designer of a robot control system for high accuracy and long durability The authors include a review of the most up to date advancements in robot dynamics and control It contains a comprehensive resource to the effective design and fabrication of robot systems and components for engineering and scientific purposes This important guide Offers a comprehensive reference with systematic treatment and a unified framework Includes simulation and experiments used in dynamics and control of robot considering contact impact and friction Discusses the most current tribology methodology used to treat the multiple scale effects Contains valuable descriptions of experiments and software used Presents illustrative accounts on the methods employed to handle friction in the closed loop including the principles implementation application scope merits and demerits Offers a cohesive treatment that covers tribology and multi scales multi physics and nonlinear stochastic dynamics control Written for graduate students of robotics mechatronics mechanical engineering tracking control and practicing professionals and industrial researchers Dynamics and Control of Robotic Manipulators with Contact and Friction offers a review to effective design and fabrication of stable and durable robot system and components **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

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examples taken from a wide range of fields including computer science electronic engineering mechanical engineering and production engineering Step by step development of problems and many worked examples     *Advances in Robotics, 1992* American Society of Mechanical Engineers. Winter Annual Meeting, 1992 This volume contains papers presented in the Symposium on Robotics held in the 1992 Winter Annual Meeting of the American Society of Mechanical Engineers ASME

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