

Geometric Design of Linkages (Hardback)

By J. Michael McCarthy, Gim Song Soh

Springer-Verlag New York Inc., United States, 2010. Hardback. Book Condition: New. 2nd ed. 2011. 240 x 156 mm. Language: English . Brand New Book. This book is an introduction to the mathematical theory of design for articulated mechanical systems known as linkages. The focus is on sizing mechanical constraints that guide the movement of a work piece, or endeffector, of the system. The function of the device is prescribed as a set of positions to be reachable by the end-effector; and the mechanical constraints are formed by joints that limit relative movement. The goal is to find all the devices that can achieve a specific task. Formulated in this way the design problem is purely geometric in character. Robot manipulators, walking machines, and mechanical hands are examples of articulated mechanical systems that rely on simple mechanical constraints to provide a complex workspace for the endeffector. The principles presented in this book form the foundation for a design theory for these devices. The emphasis, however, is on articulated systems with fewer degrees of freedom than that of the typical robotic system, and therefore, less complexity. This book will be useful to mathematics, engineering and computer science departments teaching courses on...



Reviews

It becomes an amazing book which i actually have at any time study. It is actually loaded with wisdom and knowledge You wont sense monotony at at any time of your respective time (that's what catalogues are for regarding should you request me).

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