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Dynamics of Manipulation Robots: Theory and Application

By M. Vukobratovic

Springer. Paperback. Condition: New. 324 pages. Dimensions: 9.6in. x 6.7in. x 0.7in. This monograph represents the first book of the series entitled SCIENTIFIC FUNDAMENTALS OF ROBOTICS. The aim of this monograph is to approach the dynamics of active mechanisms from the standpoint of its application to the synthesis of complex motion and computer-aided design of manipulation mechanisms with some optimal performances. The rapid development of a new class of mechanisms, which may be referred to as active mechanisms, contributed to their application in various environments (from underwater to cosmic). Because of some specific features, these mechanisms require very careful description, both in a mechanical sense (kinematic and dynamic) and in the synthesis of algorithms for precise tracking of the above motion under insufficiently defined operating conditions. Having also in mind the need for a very fast (even real-time) calculation of system dynamics and for eliminating, in principle, the errors made when forming mathematical models by hand this monograph will primarily present methods for automatic formulation of dynamic equations of motion of active spatial mechanisms. Apart from these computer-oriented methods, mention will be made of all those methods which have preceded the computer-oriented procedures, predominantly...



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