



## Applied Dynamics and CAD of Manipulation Robots

By M. Vukobratovic

Springer. Paperback. Condition: New. 320 pages. Dimensions: 9.6in. x 6.7in. x 0.8in. This book is a logical continuation of Volume 1 of the series entitled Scientific Fundamentals of Robotics which presents all of the basic methods for computerized construction of dynamics of manipulation robots as well as the essential concepts of computer-aided design of their mechanics. Vol. 1 of the Series also contains the main practical results from the elastodynamics of manipulation robots, having in mind a need for forming a computer procedure which allows efficient checks of elastic deformations of a manipulator tip or some other of its characteristic points. Wishing to add a highly applications-oriented dimension to the dynamic aspect of studies of manipulation robots, the authors have made a kind of a topic-based selection by leaving unconsidered some aspects of studies of robots, such as elasticity, and discussing others, more important in their opinion, to such an extent as suffices to make them practically applicable. The authors have decided not to treat in detail the problem of flexible manipulation robots for two reasons. The first results from the attitude that the permissible (desired) robot elasticity may, satisfactorily well, be tested using the...



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