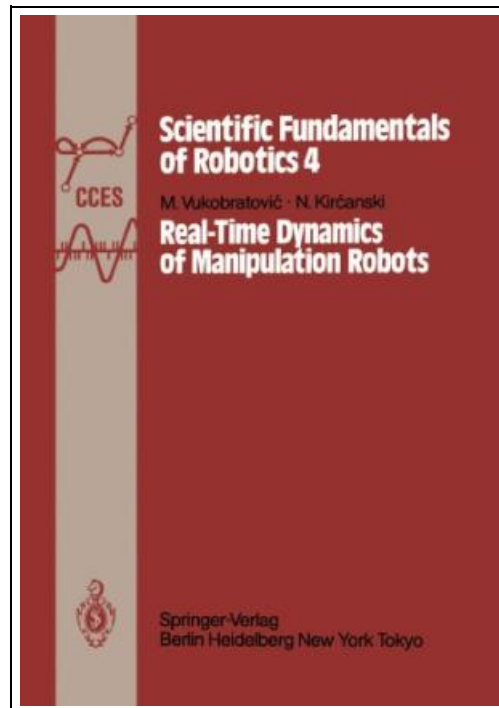


## Real-Time Dynamics of Manipulation Robots



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## REAL-TIME DYNAMICS OF MANIPULATION ROBOTS



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Springer. Paperback. Condition: New. 260 pages. Dimensions: 9.6in. x 6.7in. x 0.6in. This is the fourth book from the Series Scientific Fundamentals of Robotics. The first two volumes have established a background for studying the dynamics and control of robots. While the first book was exclusively devoted to the dynamics of active spatial mechanisms, the second treated the problems of the dynamic control of manipulation robots. In contrast to the first two books, where recursive computer-aided methods for setting robot dynamic equations were described, this monograph presents a new approach to the formation of robot dynamics. The goal is to achieve the real-time model computation using up-to-date microcomputers. The presented concept could be called a numeric-symbolic, or analytic, approach to robot modelling. It will be shown that the generation of analytical robot model may give new excellent possibilities concerning real-time applications. It is of essential importance in synthesizing the algorithms for nonadaptive and adaptive control of manipulation robots. It should be pointed out that the high computational efficiency has been achieved by off-line computer-aided preparation of robot equations. The parameters of a specified robot must be given in advance. This, after each significant variation in robot structure (geometrical and dynamical parameters), we must repeat the off-line stage. Thus is why the numerical procedures will always have their place in studying the dynamic properties of robotic systems. This monograph is organized in 5 chapters. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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