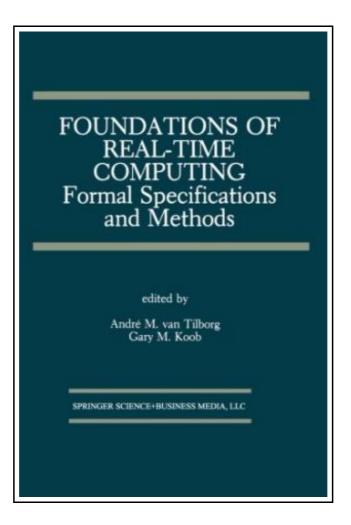
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Book Condition: New. Publisher/Verlag: Springer, Berlin | This volume contains a selection of papers that focus on the state-of the-art in formal specification and verification of real-time computing systems. Preliminary versions of these papers were presented at a workshop on the foundations of real-time computing sponsored by the Office of Naval Research in October, 1990 in Washington, D. C. A companion volume by the title Foundations of Real-Time Computing: Scheduling and Resource Management complements this hook by addressing many of the recently devised techniques and approaches for scheduling tasks and managing resources in real-time systems. Together, these two texts provide a comprehensive snapshot of current insights into the process of designing and building real time computing systems on a scientific basis. The notion of realtime system has alternative interpretations, not all of which are intended usages in this collection of papers. Different communities of researchers variously use the term real-time to refer to either very fast computing, or immediate on-line data acquisition, or deadline-driven computing. This text is concerned with the formal specification and verification of computer software and systems whose correct performance is dependent on carefully orchestrated interactions with time, e. g., meeting deadlines and synchronizing with clocks. Such systems have been enabled for a rapidly increasing set of diverse end-uses by the unremitting advances in computing power per constant-dollar cost and per constant-unit-volume of space. End use applications of realtime computers span a spectrum that includes transportation systems, robotics and manufacturing, aerospace and defense, industrial process control, and telecommunications. | 1 Towards Mechanization of Real-Time System Design.- 2 Derivation of Sequential, Real-Time, Process Control Programs.- 3 Mathematical Models of Real-Time Scheduling.- 4 Communicating Shared Resources: A Paradigm for Integrating Real-Time Specification and Implementation.- 5 Theory of Real-Time Systems - Project Survey.- 6 HMS Machines: A Unified Framework...

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