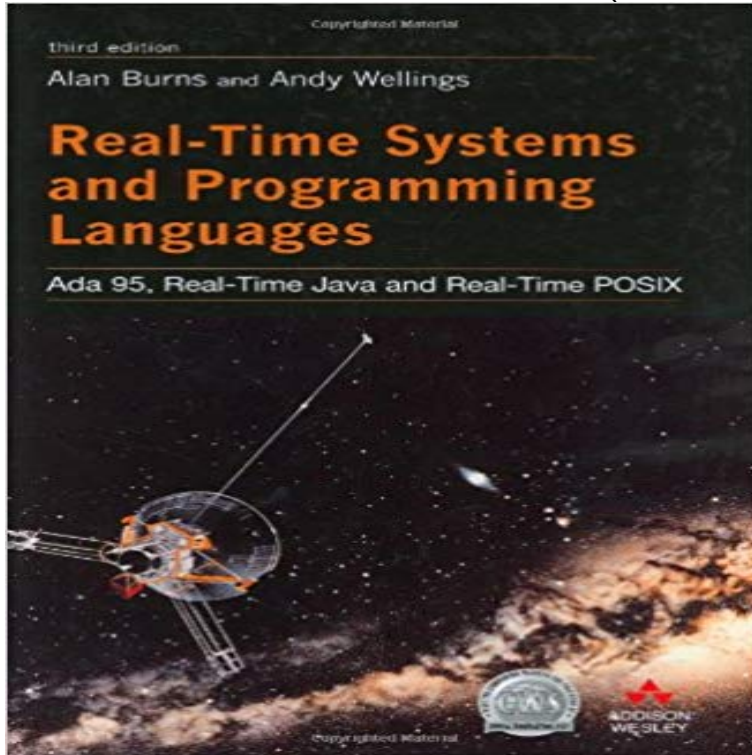


Real Time Systems and Programming Languages: Ada 95, Real-Time Java and Real-Time C/POSIX (3rd Edition)



B> This book provides an in-depth analysis of the requirements for designing and implementing real-time embedded systems, and discusses how these requirements are met by current languages and operating systems. The comparative advantages of Ada 95, Real-Time Java, and Real-Time C/POSIX are discussed in full. The emergence of Java as a real-time language through the Real-Time Java extensions has resulted in the treatment of Java as one of the core languages covered in the book. The additional real-time facilities in POSIX are also explored, as well as the proposed extensions to CORBA to address real-time issues. More material on schedulability analysis is also included. No other book on real-time programming languages (or concurrent programming languages) covers this range of topics. This book is designed for programmers and engineers looking for an introduction and/or reference that discusses current real-time programming languages and how they are suited to designing and implementing real-time embedded systems.

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and Wellings. Addison-Wesley. 3rd Edition: Ada 95, Real-Time Java and Real-Time POSIX. **Embedded and real-time systems - CiteSeerX** Over 95 % of all microprocessors Programming languages claiming to be general purpose A single real-time system may have both hard and soft e.g. assembler language, C with Real-Time Posix, Ada, Real-time Java adds real-time clocks with high resolution . Programming Languages, 3rd edition, Addison-.

Introduction and baseline concepts - UiO Real-time systems design and analysis : an engineers handbook / Phillip A. Preface to the Third Edition xvii 3.5.2 POSIX Mutexes and Condition Variables / 142 6 Programming Languages and the Software Production Process 321 . such as C, C++, Ada 95, and increasingly Java, many real-time systems are still.

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