Real Time Programming
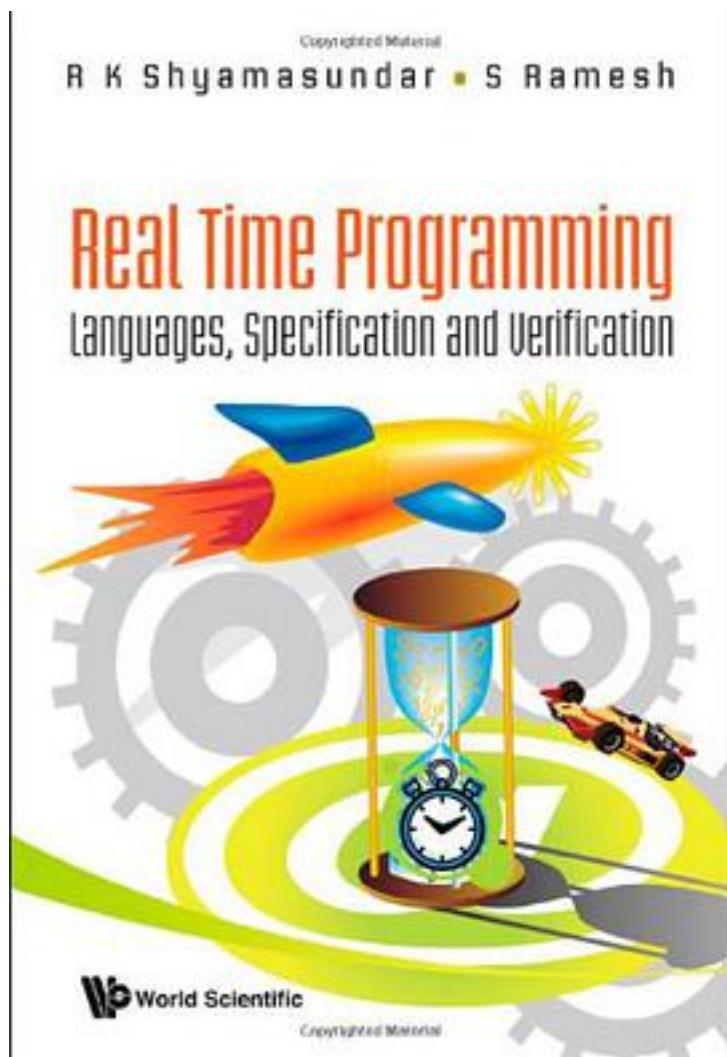
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The primary aim of this monograph is to present the current research efforts that have gone into/or going on in the systematic design of real-time programs. Such an effort would help researchers and users in the area to get a clear picture of the issues of specification, verification and design of real-time reactive programs. It will clearly enable us to identify languages that can be used for different kinds of applications. Obviously, in an upcoming area like this, this presentation is far from complete. The quintessence of the monograph can be captured by the following question: How can we design and develop Robust Reactive (real-time) Programs?

We address this question in this monograph through the various underlying issues listed, such as characteristics of real-time/reactive programs, reactive programming languages, verification and refinements.

Contents: Real Time Systems Background Synchronous Languages Other Synchronous Languages Verification of Synchronous Programs Integration of Synchrony and Asynchrony

作者介绍:

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