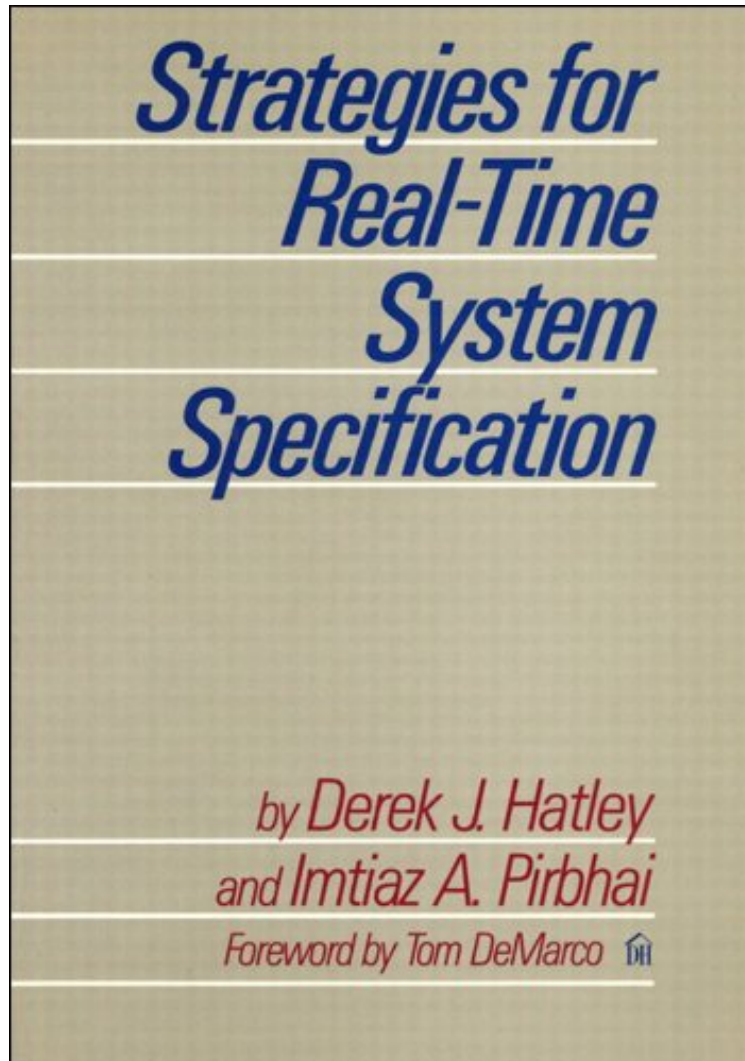


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Strategies for Real-Time System Specification (Dorset House eBooks)

Von *Derek Hatley, Imtiaz Pirbhai*
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before purchasing it in order to gage whether or not it would be worth my time, and all praised Strategies for Real-Time System Specification (Dorset House eBooks):

KundenrezensionenHilfreichste Kundenrezensionen1 von 1 Kunden fanden die folgende Rezension hilfreich. The only true and correct way to develop software.Von Ein KundeThrow away all of your books on software and/or systems development and just buy this book. If you want to design a system (hardware or software) that you wish to be able to understand, modify, enhance or just operate properly, you need to look into the development processes that are

explained in this book. This book contains the "holy-grail" process of systems development. It is not meant for everyone. Only those who wish to enlighten themselves with the one and only true method of system design need read this book. Methodologies for software and/or system specification development may come and go, this stuff is here to stay. This is a no-nonsense, no-mumbo-jumbo, meat-and-bones book on the proper methodology for real-time system specification and development. I'm just so surprised that this book is not required reading for all engineers. If you want your systems to NOT be designed properly please don't read this book.

0 von 0 Kunden fanden die folgende Rezension hilfreich. Not applicable to non-aerospace projects

Von Markus HaufI bought this book a couple of years ago when I stepped in to the real time business. After learning my lessons the hard way and reviewing the lessons learned I have to say that this book does not provide much help. The environment the methodology described was developed was a huge project in the aerospace business. Even though this formalism described in this book has proven to work I think the formalism can only work in that particular industry, where hundreds of system engineers running the development bureaucracy. In other industries development of RT System must be much more efficient. However the key aspects to efficiency in RT development are missing completely. Aspects as particular realtime systems, frameworks, abstraction and encapsulation, objects, code-generation and rapid prototyping methods are completely disregarded in this book.

I found UML to be a very convenient language for specifying real time systems and there are some good books available covering RT UML.

0 von 0 Kunden fanden die folgende Rezension hilfreich. Reference versus text book

Von Orin E MarvellI have been using this book for the past 6 years at the Naval Postgraduate school to teach Systems Engineers about the HIPO formal methodology methods. It is the best available. It is strange that the students all give it a low rating as a textbook; but later after graduating call or E-mail that it is the best reference book they have. A lot of programs that were in trouble of failure have been saved by Managers and Systems Engineers who had the guts to apply HP when the chips were down.

Cheers Orin

Kurzbeschreibung This is the digital version of the printed book (Copyright 1987). Here is a casebook, a practical reference, and an indispensable guide for creating a systematic, formal methodology for large, real-time, software-based systems. The book introduces the widely implemented Hatley/Pirbhai methods, a major extension of the DeMarco analysis method describing how external events control the system's operating behavior. The techniques are used in major avionics and electronics companies worldwide, and are automated by most major CASE tools, including TurboCASE/Sys by StructSoft, Inc. Large software-based systems, especially those for real-time applications, require multi-mode operation, direct interaction with a rapidly changing physical environment, and fast response times. In the past, the development of such systems was prone to massive cost and schedule overruns, and to inadequate performance and reliability. Strategies for Real-Time System Specification addresses these problems by integrating a finite-state machine structure into classical analysis methods. The book contains nearly 200 diagrams, many of which illustrate the requirements specification of a flight management system for a major avionics developer.

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Synopsis A casebook and practical reference for modeling the requirements and architecture of real-time and general systems, this comprehensive text provides a much-needed guide for the system developer. Large software-based systems, especially those for real-time applications, require multi-mode operation, direct interaction with a rapidly changing physical environment, and fast response times. In the past, the development of such systems was prone to massive cost and schedule overruns, and to inadequate performance and reliability: the techniques presented in Strategies for Real-Time System Specification integrate a finite-state machine structure into the classical structured analysis methods, and were developed in response to a need to correct these problems. The book contains nearly 200 diagrams, many of which illustrate the techniques used in the requirements specification of a flight management computer system designed for a major avionics developer.