

Process for System Architecture ...

"I recommend PSARE as the single most important reference for an organization engaged in system architecture and requirements engineering. . . . provides an excellent initial analysis of the requirements for a system development process which likely has application in any industry."

—Arthur Gajewski, Visteon Corporation

"I think it is an excellent book. I would very much like to use it as a textbook in my software/systems engineering class. . . . I think the formalization of model elements using ERD or OO notations is a great idea. . . . I applaud the use of StateCharts with your syntax. I think it makes things much more understandable and eases modeling."

—Mark Maier, Aerospace Corporation

"I thought the book was excellent. The authors did a great job defining the whole system development process and demonstrated their understanding of how, and why, systems get designed; or at least should be designed. The book contains a lot of history and experience that has been gained by the authors throughout their careers. This book does a good job of filling in the gaps from the first book. I especially liked the comments related to object-orientation. I was happy to see all of the new things that are now contained in the PSARE methods. I feel it is a must read for all systems engineers and have personally recommended it to all my colleagues."

—Gary Rushton

Systems Engineering Technical Specialist, AutoNeural Systems

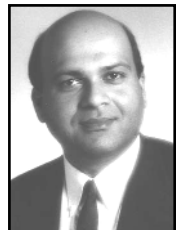
About the Authors



Derek J. Hatley, formerly of Smiths Industries, is president of System Strategies, an international consulting and training firm based in Jenison, Michigan.

Peter Hruschka is a principal of the Atlantic Systems Guild. Based in Aachen, Germany, he was among the first to implement the Hatley/Pirbhai real-time method.

At the time of his death in 1992, Imtiaz A. Pirbhai had begun work on a book of case studies now incorporated into *Process for System Architecture and Requirements Engineering*.



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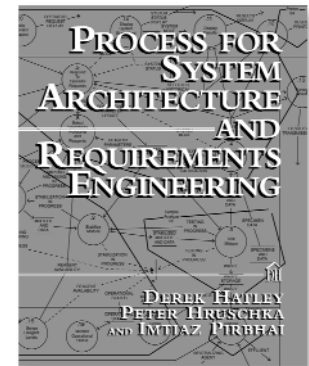
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Process for System Architecture and Requirements Engineering

by Derek Hatley, Peter Hruschka,
and Imtiaz Pirbhai



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Build Better Systems Using This Update to the Highly Acclaimed Hatley/Pirbhai Methods

Derek Hatley and Imtiaz Pirbhai—authors of *Strategies for Real-Time System Specification*—join with influential consultant Peter Hruschka to present a much anticipated update to their widely implemented Hatley/Pirbhai methods.

Process for System Architecture and Requirements Engineering introduces a new approach that is particularly useful for multidisciplinary system development: It applies equally well to all technologies and thereby provides a common language for developers in widely differing disciplines.

The Hatley/Hruschka/Pirbhai approach (H/H/P) has another important feature: the coexistence of the requirements and architecture methods and of the corresponding

models they produce. These two models are kept separate, but the approach fully records their ongoing and changing interrelationships. This feature is missing from virtually all other system and software development methods and from CASE tools that only automate the requirements model.

System managers, system architects, system engineers, and managers and engineers in all of the diverse engineering technologies will benefit from this comprehensive, pragmatic text. In addition to its models of requirements and architecture and of the development process itself, the book uses in-depth case studies of a hospital's patient-monitoring system and of a multidisciplinary groundwater analysis system to illustrate the principles.

Read more about this book at
www.dorsethouse.com/books/psare.html and www.psare.com