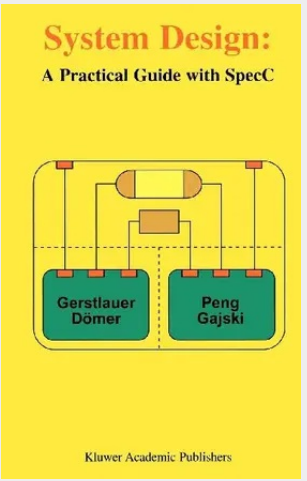
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System Design

A Practical Guide with SpecC



presents the system design flow following a simple example through the whole process in an easy-to-follow, step-by-step fashion. Each step is described in detail in pictorial form and with code examples in SpecC. For each picture slide a detailed explanation is provided of the concepts presented. This format is suited for tutorials, seminars, self-study, as a guided reference carried by examples, or as teaching material for courses on system design.
Features:

- Comprehensive introduction to and description of the SpecC language and design methodology;
- IP-centric language and methodology with focus on design reuse;
- Complete framework for system-level design from specification to implementation for SOCs and other embedded HW/SW systems.

will benefit designers and design managers of complex SOCs, or embedded systems in general, by allowing them to develop new methodologies from these results, in order to increase design productivity by orders of magnitude. Designers at RTL, logical or physical levels, who are interested in moving up to the system level, will find a comprehensive overview within. The design models in the book define IP models and functions for IP exchange between IP providers and their users. A well-defined methodology like the one presented in this book will help product planning divisions to quickly develop new products or to derive completely new business models, like e-design or product-on-demand. Finally, researchers and students in the area of system design will find an example of a formal, well-structured design flow in this book.

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