Software Engineering, The Development Process (Volume 1)

Richard H. Thayer, Mark J. Christensen

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Software Engineering, The Development Process (Volume 1) Richard H. Thayer, Mark J. Christensen "Volume 1 of Software Engineering, Third Edition" includes reprinted and newly authored papers that describe the technical processes of software development and the associated business and societal context. Together with volume 2, which describes the key processes that support development, the two volumes address the key issues and tasks facing the software engineer today. The two volumes provide a self-teaching guide and tutorial for software engineers who desire to qualify themselves as Certified Software Development Professionals (CSDP) as described at the IEEE Computer Society Web site, while also gaining a fuller understanding of standards-based software development. Both volumes consist of original papers written expressly for the two volumes, as well as authoritative papers from the IEEE archival journals, along with papers from other highly regarded sources. The papers and introductions of each chapter provide an orientation to the key concepts and activities described in the new 2004 version as well as the older 2001 version of the Software Engineering Body of Knowledge (SWEBOK), with many of the key papers having been written by the authors of the corresponding chapters of the SWEBOK. "Software Engineering" is further anchored in the concepts of IEEE/EIA 12207.0-1997 Standard for Information Technology - Software Life Cycle Processes, which provides a framework for all primary and supporting processes, activities, and tasks associated with software development. As the only self-help guide and tutorial based on IEEE/EIA 12207.0 - 1997, this is an essential reference for software engineers, programmers, and project managers. This volume can also form part of an upper-division undergraduate or graduate-level engineering course. Each chapter in this volume consists of an introduction to the chapter's subject area and an orientation to the relevant areas of the SWEBOK, followed by the supporting articles and, where applicable, the specific IEEE software engineering standard. By emphasizing the IEEE software engineering standards, the SWEBOK, and the contributions of key authors, the two volumes provide a comprehensive orientation to the landscape of software engineering as practiced today. Contents: key concepts and activities of software and systems engineering; societal and legal contexts in which software development takes place; key IEEE software engineering standards; software requirements and methods for developing them; essential concepts and methods of software design; guidelines for the selection and use of tools and methods; major issues and activities of software construction; software development testing; and, preparation and execution of software maintenance programs.

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