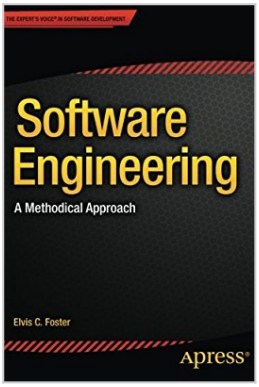

Software Engineering: A Methodical Approach

By Elvis Foster

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Software Engineering: A Methodical Approach By Elvis Foster

This text provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems proven over several years of teaching, with outstanding results.

The book covers concepts, principles, design, construction, implementation, and management issues of software systems. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes a number of the author's original methodologies that add clarity and creativity to the software engineering experience, while making a novel contribution to the discipline.

Upholding his aim for brevity, comprehensive coverage, and relevance, Foster's practical and methodical discussion style gets straight to the salient issues, and avoids unnecessary fluff as well as an overkill of theoretical calculations.

What you'll learn

- The main activities of the software development life cycle (SDLC)
- How to conceptualize, research, design, construct, implement, and manage top quality software systems
- How to evaluate the impact of software systems on organizations
- The nature, importance, and scope of software engineering as opposed to programming

Who this book is for

This book is best suited for students who are pursuing a course in software engineering. Practicing software engineers who need a quick reference on various aspects of the field will also find this text useful.

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Editorial Review

About the Author
Elvis C. Foster is Associate Professor of Computer Science at Keene State College, New Hampshire. He holds a Bachelor of Science (BSc) in Computer Science and Electronics, as well as a Doctor of Philosophy (PhD) in Computer Science (specializing in strategic information systems and database systems) from University of the West Indies, Mona Jamaica. Dr. Foster has over 25 years of combined experience as a software engineer, database expert, information technology executive and consultant, and computer science educator. He has had the favorable experience of being involved with the design and/or development of software systems for various medium-sized and large organizations, including the central bank of his own country. He has lectured at the tertiary level in three different countries, including the United States, where he now resides. He has produced many outstanding computer science and information technology professionals. Many of them have excelled at graduate school; others have gone straight to industry after their first degree; the thorough grounding acquired often serves them well, whether it be in leading software engineering enterprises around the world, or in other chosen vocations. His textbooks draw from that experience.

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