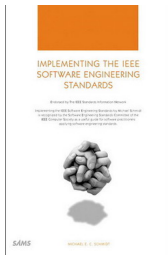


## Implementing the IEEE Software Engineering Standards



Purpose

The Institute of Electrical and Electronics Engineers (IEEE) Software Engineering Standards provide a comprehensive set of standards for developing and validating software. The standards are a fantastic resource, representing countless man-years of effort. There is an ongoing program to enhance and extend the standards (approximately five new standards are developed each year). Among the most highly regarded software engineering standards available today, the IEEE standards are widely recognized in regulated industries such as the medical device industry. Proper use of the standards can help organizations improve their software development and validation process, and help implement an effective software quality system

Unfortunately, individuals or organizations often find it difficult to get started applying the IEEE standards, for three reasons:

The collection consists of a large number of standards.

Each standard contains detailed and substantial information.

The IEEE introduction and the top-level standard (IEEE/EIA 12207.0) are themselves complex and do not provide tutorial information on adopting the processes and practices in a graduated fashion.

This book is intended to help overcome these hurdles. Implementing the IEEE Software Engineering Standards will allow individuals to learn the IEEE software engineering standards much faster and with fewer missteps. For an organization phasing in use of the standards, this book will provide an excellent road map. The intended audience includes n Software engineering managers and engineers n Software quality assurance managers and engineers n Project managers Implementing the IEEE Software Engineering Standards was written for the reader who has a working knowledge of software development and validation, at least from an informal environment. Previous experience with the IEEE Software Engineering Standards is not required to understand the material

3.17MB / 255

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