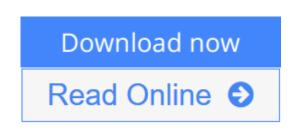# Software Quality Engineering: A Practitioner's Approach

By Witold Suryn

Software Quality Engineering: A Practitioner's Approach By Witold Suryn

Software quality stems from two distinctive, but associated, topics in software engineering: software functional quality and software structural quality. Software Quality Engineering studies the tenets of both of these notions, which focus on the efficiency and value of a design, respectively. The text addresses engineering quality on both the application and system levels with attention to Information Systems and Embedded Systems as well as recent developments. Targeted at graduate engineering students and software quality specialists, the book analyzes the relationship between functionality and quality with practical applications to related ISO/IEC JTCI SC7 standards.

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Editorial Review

From the Back Cover

A concise, engineering-oriented resource that provides practical support to IT professionals and those responsible for the quality of the software or systems they develop

Software quality stems from two distinctive, but associated, topics in software engineering: software functional quality and software structural quality. This book studies the tenets of both of these notions, which focus on the efficiency and value of a design, respectively. It addresses engineering quality on both the application and system levels with attention to information systems (IS) and embedded systems (ES) as well as recent developments.

Software Quality Engineering introduces the basic concepts of quality engineering like the nature of the engineering process, quality models and measurements, and evaluation quality, and provides a step-by-step overview of the application of software quality engineering in commonly recognized phases of the software development process. It also discusses management of software quality engineering processes, with special attention to budget, planning, conflict resolution, and traceability of quality requirements.

Targeted at graduate engineering students and software quality specialists, *Software Quality Engineering*:

- Provides an analysis of interdependence between software functionality and its quality
- Includes a list of software quality engineering "to-dos" and models of software quality requirements traceability
- Covers the practical use of related ISO/IEC JTCI/SC7 standards

About the Author

WITOLD SURYN, PHD, is a Professor at the École de Technologie Supérieure, Montreal, Canada (engineering school of the Université du Québec network of institutions) where he teaches graduate and undergraduate software engineering courses and conducts research in the domain of software quality engineering, software trustworthiness, and software project management. Dr. Suryn is also the principal researcher and the director of GELOG: IQUAL, the Software Quality Engineering Research Group at École de Technologie Supérieure; the Canadian expert to ISO/IEC SC7—System and Software Engineering Working Group 6 on software quality; and the International Secretary of ISO/IEC SC7.

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