



# Software Engineering

By Kassem A. Saleh

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**Software Engineering** By Kassem A. Saleh

**Software Engineering** provides the software engineering fundamentals, principles and skills needed to develop and maintain high-quality software products. The software engineering processes and techniques covered include requirements specification, design, implementation, testing and management of software projects. This up-to-date book is modeled on the recommendations and guidelines prescribed in the Guide to the SWEBOK.

At the end of each chapter, the reader will be able to perform tangible software engineering tasks by applying the learned techniques and methods, will be familiar with the terminology, will understand the principles by mastering the subjects, and will be able to analyze existing task deliverables, and compare and critique the different techniques.

## KEY FEATURES

- Covers the critical and significant topic of software maintenance
- Follows the recommendations and guidelines prescribed in the Guide to the SWEBOK
- Clarifies the material in a concrete way by solving carefully selected examples
- Offers practical coverage of the Unified Modeling Language (UML 2)
- Provides suggested readings to supplement the text
- Contains end-of-chapter review questions and exercises and includes solutions to selected problems
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### Editorial Review

#### About the Author

**Kassem A. Saleh**, Ph.D. is currently Professor of Information Sciences at Kuwait University. He received his B.Sc., M.Sc. and PhD in Computer Science from the University of Ottawa in Canada. Professor Saleh worked as a computer systems specialist at Mediatel, Bell Canada, from 1985 to 1991, and was on the faculty of Concordia University in 1991-1992, Kuwait University from 1992 to 2000, and American University of Sharjah from 2000 to 2007. He is also a Certified Information Systems Security Professional (CISSP).

*The Journal of Systems and Software* has ranked Professor Saleh among the top scholars in the field of systems and software engineering in seven of its annual assessments published from 1996 to 2003. Professor Saleh has published more than 120 journal and conference papers and has presented numerous tutorials and invited talks at international conferences and universities worldwide.

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