

Software Measurement and Estimation: A Practical Approach

By Linda M. Laird, M. Carol Brennan

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Software Measurement and Estimation: A Practical Approach By Linda M. Laird, M. Carol Brennan

An effective, quantitative approach for estimating and managing software projects

How many people do I need? When will the quality be good enough for commercial sale? Can this really be done in two weeks? Rather than relying on instinct, the authors of Software Measurement and Estimation offer a new, tested approach that includes the quantitative tools, data, and knowledge needed to make sound estimations.

The text begins with the foundations of measurement, identifies the appropriate metrics, and then focuses on techniques and tools for estimating the effort needed to reach a given level of quality and performance for a software project. All the factors that impact estimations are thoroughly examined, giving you the tools needed to regularly adjust and improve your estimations to complete a project on time, within budget, and at an expected level of quality.

This text includes several features that have proven to be successful in making the material accessible and easy to master:
* Simple, straightforward style and logical presentation and organization enables you to build a solid foundation of theory and techniques to tackle complex estimations
* Examples, provided throughout the text, illustrate how to use theory to solve real-world problems
* Projects, included in each chapter, enable you to apply your newfound knowledge and skills
* Techniques for effective communication of quantitative data help you convey your findings and recommendations to peers and management

Software Measurement and Estimation: A Practical Approach allows practicing software engineers and managers to better estimate, manage, and effectively communicate the plans and progress of their software projects. With its classroom-tested features, this is an excellent textbook for advanced undergraduate-level and graduate students in computer science and software engineering.

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Review
"It is a good and welcome addition to any technical library…and for anyone…who needs to manage software, either development or acquisition." (*ACM Software Engineering Notes*, January 2007)

"…an excellent book on this important area of software development." (*CHOICE*, December 2006)

"The authors offer software engineers and project managers a new, tested approach that provides the quantitative tools, data, and knowledge needed to make sound estimations." (*IEEE Computer Magazine*, August 2006)

"Corporations should advise both their project managers and their software teams to study methods introduced in this worthy text." (*Kybernetes*, Vol.36 Issue 1)

From the Back Cover
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LINDA M. LAIRD is Adjunct Professor at Stevens Institute of Technology, where she teaches Quantitative Software Engineering. Dr. Laird has more than thirty years of experience building and managing systems for Lucent Technologies, AT&T, and Bell Laboratories.

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