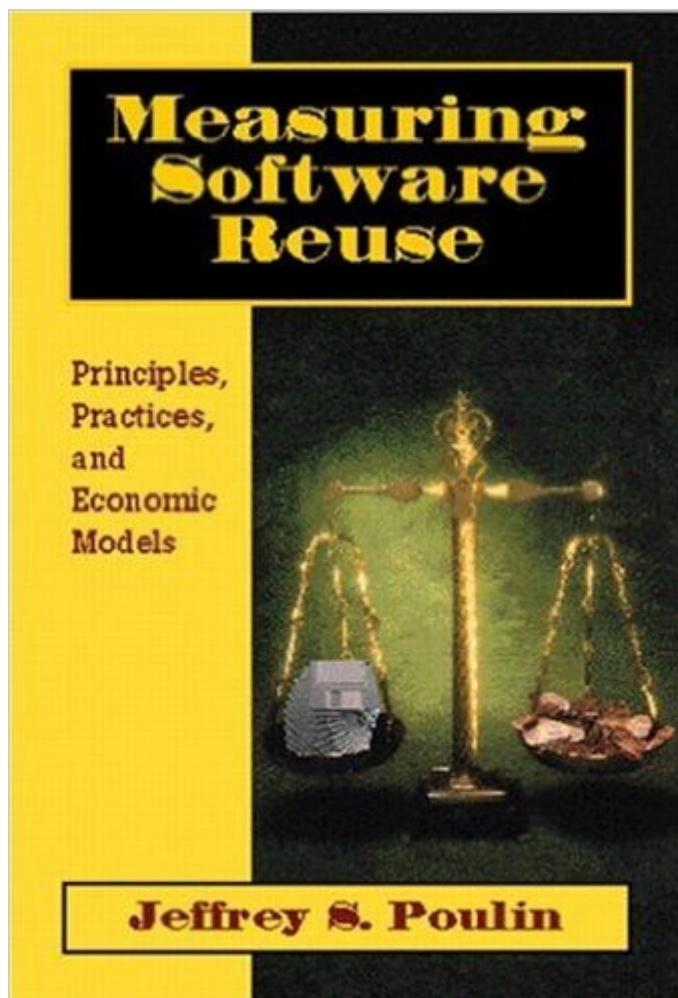


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# Measuring Software Reuse: Principles, Practices, And Economic Models



## Synopsis

With the techniques in this book, you will have the tools you need to design a far more effective reuse program, prove its bottom-line profitability, and promote software reuse within your organization. Written by a leading software reuse practitioner, *Measuring Software Reuse* brings together all of the latest concepts, tools, and methods for software reuse metrics, presenting concrete quantitative techniques for accurately measuring the level of reuse in a software project and objectively evaluating its financial benefits. The book addresses all of the many factors involved in a software reuse program: determining what constitutes software reuse-looking at COTS software, operating systems services, tools, code libraries, and more; how to measure the level of reuse in a project; and how to analyze the costs incurred by a software reuse program. You will also find detailed explanations of the various economic models used to evaluate the financial benefits of a reuse program such as cost avoidance, value added, payoff threshold, return-on-investment, and cost-benefit analysis. To further your understanding, the book presents experience-tested techniques for implementing a metrics program by incorporating a recommended reuse metric "starter set. " It also includes an extensive discussion on the metrics for reuse libraries and examines the issue of measuring reuse throughout the software life cycle. 0201634139B04062001

## Book Information

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## Customer Reviews

This book explained things that no one else ever had presented, especially all the difficulties in actually getting a project to implement reuse metrics. I found it invaluable. It covers all languages

(we use C++) and on my project we used the example metrics in the book to establish our own reuse program! I highly recommend the book!

This book clearly explained the toughest problems associated with measuring reuse. It had numerous practical examples and references to break down the most difficult topics- especially "what should I measure?" in Chapter 4. I found the approach practical and applicable to any organization.

This book clearly explains reuse issues better than I have found anywhere else. It has practical advice on how to measure in all languages, to include object-oriented development and the reuse of things beyond just code (like documentation). I highly recommend this book to anyone working in reuse, component-based development, or related efforts.

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