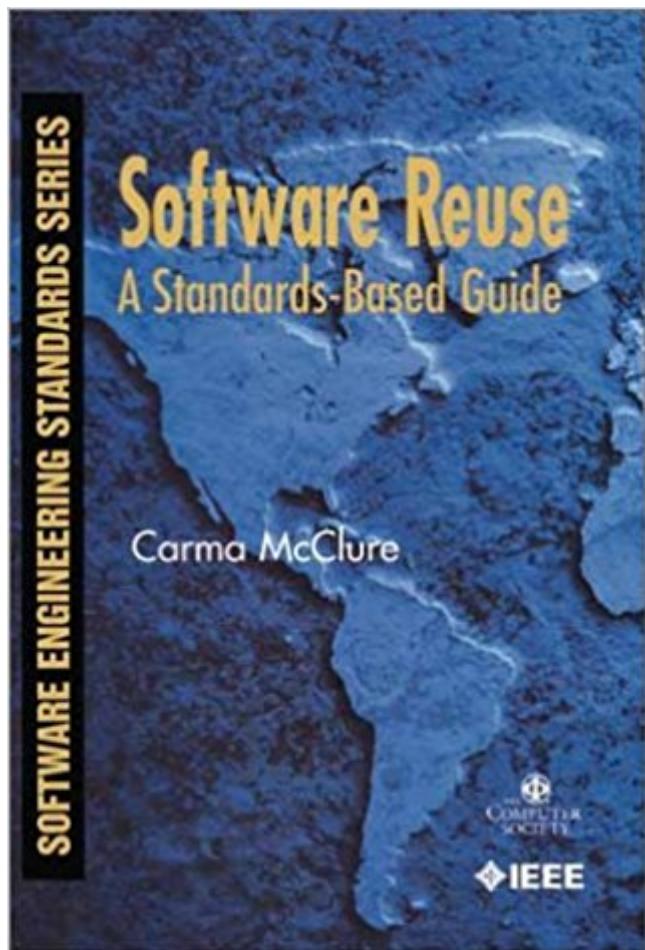


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# Software Reuse: A Standards-Based Guide



## **Synopsis**

Reuse is one of the simplest and oldest concepts in programming - and one that is often underutilized. When implemented purposefully and correctly, reuse can save time and money as well as create an inventory of valuable and reusable software assets. Dr. Carma McClure, one of the principal writers of the IEEE's Software Reuse Standard 1517, provides clear, concise, and applied information to make effective software reuse based on the reuse standard a reality. This book provides specific instructions for implementing reuse within the context of the IEEE Software Reuse Process Standard 1517 as well as the IEEE/EIA Standard 12207 - Standard for Information Technology Software Life Cycle Processes. This new guide aids the reader in interpreting the meaning of the standard, implementing the standard, and applying the standard. Like IEEE Std. 1517, this book is written for both managers and technical personnel involved in acquiring, supplying, or developing software applications and systems or reusable assets.

## **Book Information**

Series: Software Engineering Standards Series (Book 10)

Paperback: 318 pages

Publisher: Wiley-IEEE Computer Society Pr; 1 edition (July 11, 2001)

Language: English

ISBN-10: 076950874X

ISBN-13: 978-0769508740

Product Dimensions: 7 x 0.6 x 10.1 inches

Shipping Weight: 1.2 pounds

Average Customer Review: 5.0 out of 5 starsÂ  See all reviewsÂ  (1 customer review)

Best Sellers Rank: #9,357,005 in Books (See Top 100 in Books) #68 inÂ  Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Software Reuse #6537 inÂ  Books > Textbooks > Computer Science > Software Design & Engineering #14869 inÂ  Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Software Development

## **Customer Reviews**

This book has two primary audiences:(1) those who have standardized on IEEE Std 1517 (Software Reuse Process) or (2) organizations that are (a) working within IEEE/EIA Standard 12207 (Standard for Information Technology, Software Life Cycle Processes) and (b) are incorporating reuse practices into their development process. There is a secondary audience that consists of

component-based software engineering and/or off-shore contractors ("software factories") that are required to adhere to the 1517 or 12207. The book primarily focuses on IEEE Std 1517, and does an excellent job of clearly explaining this standard from a macro view. It also provides necessary details for incorporating 1517 into existing development processes. Two strong chapters that I especially like covers the relationship of 1517 to the CMM, which gives some guidance for 1517's requirements into a CMM shop (although it probably would not be a good fit unless an organization was at least at CMM Level 3); and the relationship to UML, which can be expanded and extrapolated to fit within organizations that are using the Rational Unified Process, the OPEN Process or similar approaches. Summary: If you fit within the primary or secondary audiences I cited above this book is worthwhile. Indeed, it will save time and resources because it is clear on what needs to be accomplished to implement 1517. I also strongly recommend "Measuring Software Reuse" by Jeffrey Poulin as a companion to this book. Combined, these two books contain a recipe for successful software reuse within the context of IEEE Std 1517.

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