

The Economics Of Software Quality

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What is SOFTWARE QUALITY? What does SOFTWARE QUALITY mean? SOFTWARE QUALITY meaning \u0026 explanation

Cost of Quality: What is it?Using Function Points For Economic Analysis Of Software Methodologies Software Quality Metrics You Can Count On - ICSQ ASQ 2015 Measuring Software Quality 2018

Jonathan Blow on Software Quality at the CSUA 1Software Quality - Georgia Tech - Software Development Process Becoming a Software Testing Expert Agile vs Waterfall | Which Software Development Approach Would You Choose? | Edureka The Economics of Software Dependability The Economics Of Software Quality

The Economics of Software Quality is a comprehensive, data-rich study of challenges of quality software across the many application domains. It is an essential read for software quality professionals who wish to better understand the challenges they face and the cost and effectiveness of potential solutions.

The Economics of Software Quality: Jones, Capers ...

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Economics of Software Quality, The 1, Jones Capers ...

In The Economics of Software Quality, leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

The Economics of Software Quality [Book]

The book The Economics of Software Quality provides solutions to quantify Software Quality, helping you to manage software development and maintenance. It contains software quality data that you can use to build a business case to improve the quality of your software, and decide upon processes and techniques that can help to implement the needed improvements in your organization.

The Economics of Software Quality by Capers Jones

Economics of Software Quality, The | InformIT. Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In The Economics of Software Quality, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

Economics of Software Quality, The | InformIT

Higher quality software drives higher productivity. It also lowers the total cost of IT ownership and offers considerable economic benefit to the enterprise, whether it's software needed to run the business, or to sell to customers. Quality problems become security issues: today's bugs become tomorrow's vulnerabilities.

CISO Perspective: The Economics of Software Quality and ...

The book Economics of Software Quality provides solutions to quantify Software Quality and manage software development and maintenance. It contains data usable to build a business case to improve quality, and decide upon improvements in your organization.

The Economics of Software Quality - Ben Linders

The productivity rate of software developers and teams can vary based on the level of quality of code they are producing. Typically, developers are capable of producing code in a range of qualities, from low to high.

Economics of Software Quality | Blog - Steve Smith

In the first of a three-part interview with co-authors Capers Jones and Olivier Bonsignour, we are introduced to their new book, "The Economics of Software Quality." Jones and Bonsignour describe "structural quality" vs. "functional quality," along with challenges and advice about avoiding pitfalls related to measuring structural quality.

Quality metrics: The economics of software quality

Software quality assurance (QA) is a critical function in the successful development and maintenance of software systems. Because the QA activity adds significantly to the cost of developing software, the cost-effectiveness of QA has been a pressing concern to software quality managers.

[PDF] The Economics of Software Quality Assurance: A ...

In The Economics of Software Quality, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

Book: The Economics of Software Quality - Ben Linders

In The Economics of Software Quality, leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

The Economics of Software Quality, The on Apple Books

"This book provides the best treatment on the subject of economics of software quality that I've seen. Peppered with valuable industry data, in-depth analysis, empirical methods for quality improvement, and economic analysis of quality, this book is a must-read for anyone who is interested in this subject.

The economics of software quality (Book, 2012) [WorldCat.org]

Capers Jones discusses key topics from his latest book, The Economics of Software Quality. Learn how to systematically measure the economic impact of quality and how to use this information to ...

The Economics of Software Quality

For example, software quality does not mean the same thing to a customer as it does to a developer. Economic value has a different meaning to vendors than it has to consumers. For vendors, revenue is the key element of value, and for consumers, operational factors represent primary value. Both of these are discussed later in the book.

Chapter 1. Defining Software Quality and Economic Value ...

In The Economics of Software Quality, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this...

The Economics of Software Quality, Video Enhanced Edition ...

First time accepted submitter BenLinders writes "The Economics of Software Quality provides solutions to quantify software quality, helping you to manage software development and maintenance. It contains software quality data that you can use to build a business case to improve the quality of your software, and decide upon processes and techniques that can help to implement the needed improvements in your organization."

Book Review: The Economics of Software Quality - Slashdot

Software Engineering Best Practices : lessons from successful projects in the top companies, Capers Jones, McGraw-Hill, 2010, ISBN 978-0-07-162161-8. The Economics of Software Quality, Capers Jones, Olivier Bonsignour and Jitendra Subramanyam, Addison-Wesley Longman, 2011. ISBN 978-0-13-258220-9.

Software legend Capers Jones reveals the tight links between software quality, ROI, and TCO, and help you optimize all three

- Strong empirical evidence that high quality generates strongly positive ROI and reduced TCO.
- Practical ways to prevent defects, and remove them in pre-test, test, and postrelease.
- Easy checklists for assessing and improving practice, plus insights into the costs/benefits of intervention.
- By renowned software consultant Capers Jones. In this book, world-renowned software management expert Capers Jones and software quality guru Jitendra Subramanyam help development leaders and practitioners quantify and optimize the economic impact of quality throughout the software lifecycle - and then choose the highest value interventions to improve it. The authors introduce powerful empirical and field data on the ability of inspection, static analysis, and test methods to reduce up to 95% of defects, and discuss the business value of improvements of this magnitude. The Economics of Software Quality is based on proven best quality practices in IT departments and at world-leading integrators, embedded software companies, and systems software groups. Jones and Curtis bring together crucial new information on:
 - Identifying and fixing the root causes of short- and long-term software cost inefficiencies.
 - Predicting and measuring software defects and their quality impacts.
 - Assessing current practices and identifying the best interventions.
 - Calculating the ROI of quality during development and maintenance.
 - Comparing and choosing methods of defect prevention.
 - Selecting methods of defect removal, such as inspections and static analysis.
 - Understanding and evaluating more than 20 kinds of software testing.
 - Best practices for postrelease defect reporting and repair.
 - Recognizing

'hazardous' metrics and their problems

Whether consulting, working on projects, or teaching, whenever I need credible, detailed, relevant metrics and insights into the current capabilities and performance of the software engineering profession, I always turn first to Capers Jones's work. In this important new book, he and Olivier Bonsignour make the hard-headed, bottom-line, economic case, with facts and data, about why software quality is so important. I know I'll turn to this excellent reference again and again. Rex Black, President, RBCS Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In *The Economics of Software Quality*, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value. Using empirical data from hundreds of software organizations, Jones and Bonsignour show how integrated inspection, structural quality measurement, static analysis, and testing can achieve defect removal rates exceeding 95 percent. They offer innovative guidance for predicting and measuring defects and quality; choosing defect prevention, pre-test defect removal, and testing methods; and optimizing post-release defect reporting and repair. This book will help you Move beyond functional quality to quantify non-functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid 'hazardous' metrics that lead to poor decisions

This is the video enhanced eBook version of the printed book. It contains 55 minutes of video conversations & tips from the industry's leading software management consultant, Capers Jones. Important note: The audio and video content included with this enhanced eBook can be viewed only using iBooks on an iPad, iPhone, or iPod touch. Due to the incredibly rich media included in your enhanced eBook, you may experience longer than usual download times. Please be patient while your product is delivered. Whether consulting, working on projects, or teaching, whenever I need credible, detailed, relevant metrics and insights into the current capabilities and performance of the software engineering profession, I always turn first to Capers Jones's work. In this important new book, he and Olivier Bonsignour make the hard-headed, bottom-line, economic case, with facts and data, about why software quality is so important. I know I'll turn to this excellent reference again and again. Rex Black, President, RBCS Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In *The Economics of Software Quality*, leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value. Using empirical data from hundreds of software organizations, Jones and Bonsignour show how integrated inspection, structural quality measurement, static analysis, and testing can achieve defect removal rates exceeding 95 percent. They offer innovative guidance for predicting and measuring defects and quality; choosing defect prevention, pre-test defect removal, and testing methods; and optimizing post-release defect reporting and repair. This book will help you Move beyond functional quality to quantify non-functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid 'hazardous' metrics that lead to poor decisions

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up, review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor's Guide.

Economics-driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions: the long term and strategic viability, cost-effectiveness, and sustainability of applications and systems. Economics-driven software development can increase quality, productivity, and profitability, but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large, architecturally challenging systems in an economic way. This book covers how to apply economic considerations during the software architecting activities of a project. Architecture-centric approaches to development and systematic evolution, where managing complexity, cost reduction, risk mitigation, evolvability, strategic planning and long-term value creation are among the major drivers for adopting such approaches. It assists the objective assessment of the lifetime costs and benefits of evolving systems, and the identification of legacy situations, where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost. Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting. Familiarizes readers with essential considerations in economic-informed and value-driven software design and analysis Introduces techniques for making value-based software architecting decisions Provides readers a better understanding of the methods of economics-driven architecting

A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. *Software Testing and Quality Assurance: Theory and Practice* equips readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.

The most comprehensive General, Organic, and Biochemistry book available, Introduction to General, Organic, and Biochemistry, 11th Edition continues its tradition of a solid development of problem-solving skills, numerous examples and practice problems, along with coverage of current applications. Written by an experienced author team, they skillfully anticipate areas of difficulty and pace the book accordingly. Readers will find the right mix of general chemistry compared to the discussions on organic and biochemistry. Introduction to General, Organic, and Biochemistry, 11th Edition has clear & logical explanations of chemical concepts and great depth of coverage as well as a clear, consistent writing style which provides great readability. An emphasis on Real-World aspects of chemistry makes the reader comfortable in seeing how the chemistry will apply to their career.

The Economics of Information Systems and Software focuses on the economic aspects of information systems and software, including advertising, evaluation of information systems, and software maintenance. The book first elaborates on value and values, software business, and scientific information as an economic category. Discussions focus on information products and information services, special economic properties of information, culture and convergence, hardware and software products, materiality and consumption, technological progress, and software flexibility. The text then takes a look at advertising to finance software, perspectives on East-West relations in economics and information, and evaluation of information systems. Topics include research on information systems, knowledge on Eastern European information services, GDR information institutes, local databases, GDR databases, CMEA directions, and theoretical propositions. The manuscript reviews software reuse, software methodology in the harsh light of economics, quantitative aspects of software maintenance management, and calibrating a software cost-estimation model. Concerns cover the need for calibration, measuring maintainability, prognosis of maintenance effort, object-oriented programming, metaprogramming, and software quality and reuse. The text is a dependable reference for computer science experts and researchers wanting to explore further the economics of information systems and software.

Software Engineering Economics is an invaluable guide to determining software costs, applying the fundamental concepts of microeconomics to software engineering, and utilizing economic analysis in software engineering decision making.

Pioneering software engineer Capers Jones has written the first and only definitive history of the entire software engineering industry. Drawing on his extraordinary vantage point as a leading practitioner for several decades, Jones reviews the entire history of IT and software engineering, assesses its impact on society, and previews its future. One decade at a time, Jones assesses emerging trends and companies, winners and losers, new technologies, methods, tools, languages, productivity/quality benchmarks, challenges, risks, professional societies, and more. He quantifies both beneficial and harmful software inventions; accurately estimates the size of both the US and global software industries; and takes on "unexplained mysteries" such as why and how programming languages gain and lose popularity.

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