

| A TOTAL QUALITY MANAGEMENT GUIDE |

Software Excellence

Shigeichi Moriguchi

Software Excellence A Total Quality Management Guide

Norman Bodek



Software Excellence A Total Quality Management Guide:

Software Excellence Shigeichi Moriguchi, 1997-02-01 Thanks to the great success of the QC movement quality assurance has taken root in the earliest stages of technology development Software Excellence addresses the assumption that software cannot be built without bugs The author argues that the application of total quality principles and tools to software development will eliminate the lengthy and costly step of debugging that has become an accepted phase of software development Table of Contents Publisher's Message Preface Editor's Foreword Tadashi Yoshizawa Editor's Foreword Motohiro Higashi List of Editors and Authors PART 1 QUALITY CONTROL METHODOLOGY Chapter One High Quality Software Chapter Two Total Quality Management TQM Chapter Three Methods of Quality Control QC PART 2 QUALITY PROCESSES APPLIED TO SOFTWARE DESIGN AND DEVELOPMENT Chapter Four Software Quality Control and Small Group Activities in Software Chapter Five High Reliability Software Chapter Six Software Development and Modularization Chapter Seven Software Documentation Chapter Eight Software Engineering Chapter Nine Change Management Chapter Ten Quality Improvement in Reuse Chapter Eleven Quality Function Deployment for Software Development Chapter Twelve Examples of Quality Measurement Systems Chapter Thirteen Methods for Quantitative Measurement and Evaluation of Quality Chapter Fourteen Production Planning for Software Products Chapter Fifteen Software Technology Management Chapter Sixteen Quality Design and Management Planning Chapter Seventeen Review and Process Specific Management Chapter Eighteen Test Management and Audits Chapter Nineteen Maintenance Management Glossary of Acronyms Index

Software Process Definition and Management Jürgen Münch, Ove Armbrust, Martin Kowalczyk, Martín Soto, 2012-05-27 The concept of processes is at the heart of software and systems engineering Software process models integrate software engineering methods and techniques and are the basis for managing large scale software and IT projects High product quality routinely results from high process quality Software process management deals with getting and maintaining control over processes and their evolution Becoming acquainted with existing software process models is not enough though It is important to understand how to select define manage deploy evaluate and systematically evolve software process models so that they suitably address the problems applications and environments to which they are applied Providing basic knowledge for these important tasks is the main goal of this textbook Münch and his co authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own purposes They start with the basic concepts Subsequently existing representative process models are introduced followed by a description of how to create individual models and the necessary means for doing so i e notations and tools Lastly different possible usage scenarios for process management are highlighted e g process improvement and software process simulation Their book is aimed at students and researchers working on software project management software quality assurance and software measurement and at practitioners who are interested in process definition and management for developing maintaining and operating software

intensive systems and services *Software Engineering* Roger S. Pressman, 2005 For more than 20 years this has been the best selling guide to software engineering for students and industry professionals alike This edition has been completely updated and contains hundreds of new references to software tools **Software Maintenance Management** Alain April, Alain Abran, 2012-04-20 This book explores the domain of software maintenance management and provides road maps for improving software maintenance organizations It describes full maintenance maturity models organized by levels 1 2 and 3 which allow for benchmarking and continuous improvement paths Goals for each key practice area are also provided and the model presented is fully aligned with the architecture and framework of software development maturity models of CMMI and ISO 15504 It is complete with case studies figures tables and graphs **Learning Models for Innovation in Organizations: Examining Roles of Knowledge Transfer and Human Resources Management** Soliman, Fawzy, 2013-12-31 In order to strive for a competitive advantage in their industry organizations have begun achieving innovation through knowledge driven learning models to ensure that organizational activities are efficient and effective Learning Models for Innovation in Organizations Examining Roles of Knowledge Transfer and Human Resources Management provides relevant theoretical frameworks and empirical research findings to enhance knowledge management and learning competencies for organizational activities This book offers assistance and guidance to managers and professionals of innovation firms learning organizations and other work communities through tools techniques and strategic suggestions for improvement **Handbook of Research Design and Social Measurement** Delbert C. Miller, Neil J. Salkind, 2002-01-16 If a student researcher had only one handbook on their bookshelf Miller and Salkind's Handbook would certainly have to be it With the updated material the addition of the section on ethical issues which is so well done that I'm recommending it to the departmental representative to the university IRB and a new Part 4 on Qualitative Methods the new Handbook is an indispensable resource for researchers Dan Cover Department of Sociology Furman University I have observed that most instructors want to teach methodology their way to imbue the course with their own approach Miller Salkind allows one to do this easily The book is both conceptually strong e g very good coverage of epistemology research design and statistics and at the same time provides a wealth of practical knowledge scales indices professional organizations computer applications etc In addition it covers the waterfront of methodology Michael L Vasu Director of Information Technology North Carolina State University A unique and excellent reference tool for all social science researchers and a good textbook for graduate students and senior year undergraduate classes These students are about to enter the real life of research and need a handy and comprehensive tool as a starting point that offers shortcuts for getting into real research projects For a small project the book offers enough information to get the project started For big projects the book is ideal for information on where to look for things and examples Jianhong Liu Department of Sociology Rhode Island College The book considered a necessity by many social science researchers and their students has been revised and updated while

retaining the features that made it so useful The emphasis in this new edition is on the tools graduate students and more advanced researchers need to conduct high quality research Features Benefits Provides step by step instruction for students research training by beginning with how to find a creative idea a middle range theory and initial hypothesis and proceeds through design proposal collection and analysis of data followed by writing reporting and publication Section on scales and indices are organized so that readers can quickly locate and find the type of scale or index in which they may be interested All sections are now followed by useful and well considered reference sections so that readers can read more about each topic Includes updated coverage on new scales internal and external validity and new analytic techniques with extensive references on each Presents extensive coverage of how to prepare manuscripts for publication including a list of all journals covered by Sociological Abstracts along with the editorial office address and URL for each entry Discusses the importance of policy research with presentation and discussion of specific models as an adjunct to both applied and basic research techniques Provides extensive coverage of funding opportunities including those offered by the National Institutes of Health the National Science Foundation and a directory of private funding sources including relevant contact information New to this edition New Part 4 by John Creswell and Ray Maietta provides a comprehensive introduction to qualitative methods including a review of existing computer applications for collecting and analyzing data New and more current reviews and commentaries have replaced dated or no longer relevant excerpts Thousands of new references on the assessment of important sociological variables as well as references to such topics as statistical analysis computer applications and specific topics Thoroughly updated information on the use of computers and online research techniques including beginning and intermediate material about the Internet and its use by the modern research scientist Coherent and thoughtful review of the most popular statistical analysis software packages New guidelines and discussion of ethical practices in social and behavioral science research including extensive coverage of institutional review board procedures and activities Expansion of social indicators to include international coverage Plus there is an extensive and well organized table of contents with four levels of headings and for the first time in the history of the book a comprehensive index TQM Engineering Handbook D.H. Stamatis,1997-06-26 Offering a model an implementing strategy as well as traditional and nontraditional methods for the successful enhancement and maintenance of quality this work establishes a rationale for the continuation of Total Quality Management TQM in all organizations It considers leading quality related topics such as unusual charts supplier organization customer relationships customer needs and expectations instructional design adult learning advanced quality planning and reliability **Software Design for Six Sigma** Basem S. El-Haik,Adnan Shaout,2010-08-06 This proposal constitutes an algorithm of design applying the design for six sigma thinking tools and philosophy to software design The algorithm will also include conceptual design frameworks mathematical derivation for Six Sigma capability upfront to enable design teams to disregard concepts that are not capable upfront learning the software development cycle and saving development costs The

uniqueness of this book lies in bringing all those methodologies under the umbrella of design and provide detailed description about how these methods QFD DOE the robust method FMEA Design for X Axiomatic Design TRIZ can be utilized to help quality improvement in software development what kinds of different roles those methods play in various stages of design and how to combine those methods to form a comprehensive strategy a design algorithm to tackle any quality issues in the design stage

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Maximizing ROI on Software Development Vijay Sikka,2004-10-28 Maximizing ROI on Software Development explains how to execute best quality software development and testing while maximizing business value It discusses Applied ROI in the context of methodologies such as Agile and Extreme Programming and traditional methodologies including Six Sigma the Capability Maturity Model CMM Total Cost of Ownershi

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