Toward Zero-Defect Programming

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Toward Zero Defect Programming:

  Toward Zero-defect Programming Allan M. Stavely,1999 Toward Zero Defect Programming describes current methods for writing nearly bug free programs These methods are based on practices developed at IBM and elsewhere under the name Cleanroom Software Engineering The successful application of these methods in commercial projects over the past fifteen years has produced defect rates that are at least an order of magnitude lower than industry averages Remarkably this reduction in defects comes at no net cost on the contrary it is often accompanied by increased productivity and shorter overall development time In a concise and well illustrated presentation Stavely shows how these methods can be applied in three key areas of software development 1 specification 2 verification and 3 testing   **Introduction to the Team Software Process** Watts S. Humphrey,2000 TSPi overview The logic of the team software process The TSPi process The team roles Using the TSPi Teamwork   *Introduction to the Team Software Process(sm)* Watts S. Humphrey,1999-08-24 Watts Humphrey is the visionary behind the Capability Maturity Model CMM R and the Personal Software Process PSP sm The CMM contains a framework for software process improvement at the organizational level The PSP builds the self discipline needed for individual programmers to work efficiently and effectively The author s new Team Software Process TSP sm details methods to guide the formation of software development teams to motivate their work and to enhance their productivity This book describes an introductory version of TSP ideal for smaller projects but also useful for learning basic techniques and procedures that apply to other development projects Methods presented include how to establish roles how to conceive design and plan a project how to track and report on progress The book walks readers through a complete development cycle illustrating how best to use the talents at hand how to formulate well defined goals how to coordinate activities for maximum progress how to promote effective communication how to alleviate many of the conflicts that undermine teamwork Team members should not have to expend valuable time and energy reinventing ways to organize and run their team By following a proven process the team will more quickly be able to focus on the successful completion of the project itself To help a team course apply these methods the book provides two project exercises with prescribed development goals and team roles   **Specifying Software** R. D. Tennent,2002-02-25 Provides an innovative hands on introduction to techniques for specifying the behaviour of software components It is primarily intended for use as a text book for a course in the 2nd or 3rd year of Computer Science and Computer Engineering programs but it is also suitable for self study Using this book will help the reader improve programming skills and gain a sound foundation and motivation for subsequent courses in advanced algorithms and data structures software design formal methods compilers programming languages and theory The presentation is based on numerous examples and case studies appropriate to the level of programming expertise of the intended readership The main topics covered are techniques for using programmer friendly assertional notations to specify develop and verify small but non trivial algorithms and data representations and the use of

state diagrams grammars and regular expressions to specify and develop recognizers for formal languages **New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering** Khaled Elleithy,Tarek Sobh,2014-11-27 This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers form the conference proceedings of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2013 Coverage includes topics in Industrial Electronics Technology Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students *Innovations and Advances in Computer, Information, Systems Sciences, and Engineering* Khaled Elleithy,Tarek Sobh,2012-08-28 Innovations and Advances in Computer Information Systems Sciences and Engineering includes the proceedings of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2011 The contents of this book are a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Systems Computing Sciences and Software Engineering Engineering Education Instructional Technology Assessment and E learning Zero Defect Software G. Gordon Schulmeyer,1990 Izbolj ava kvalitete programske opreme s ciljem brezhibnosti predvsem z inteligentno uporabo statisti ne kontrole za kontrolirani ang controled in overjeni proces razvoja softwarea *Microsoft Secrets* Michael A. Cusumano,Richard W. Selby,1998-12-04 Based on highly confidential interviews with personnel internal memos and top secret company documents this compelling portrait reveals the philosophy style and competitive strategies that have taken Microsoft to the heights of the high tech industry Computer Decisions ,1984 Cumulated Index to the Books ,1999 Electrical Communication ,1983 **12th Conference on Software Engineering Education and Training** IEEE Computer Society,1999 These papers from the 12th Software Engineering education Conference are aimed at researchers practitioners and students in software design and development Contents include professional connections educational connections emerging connections and real world connections *Proceedings, 1991 International Workshop on Object Orientation in Operating Systems* Luis-Felipe Cabrera,Vincent Russo,Marc Shapiro,1991 The workshop was held October 1991 in Palo Alto California Papers address design and implementation object oriented applications hardware and operating system supports for objects garbage collection and the operating system objects as abstraction distributed and multiprocessor systems distributed objects interfaces and types and protection and access control No subject index Annotation copyrighted by Book News Inc Portland OR **Introduction to Computer Security** Matt Bishop,2005 Introduction to Computer Security draws upon Bishop s widely praised Computer Security Art and Science without the highly complex and mathematical coverage that most undergraduate students would find difficult or unnecessary The result the

field s most concise accessible and useful introduction Matt Bishop thoroughly introduces fundamental techniques and principles for modeling and analyzing security Readers learn how to express security requirements translate requirements into policies implement mechanisms that enforce policy and ensure that policies are effective Along the way the author explains how failures may be exploited by attackers and how attacks may be discovered understood and countered Supplements available including slides and solutions **Dr. Dobb's Journal** ,2000 **IBM Systems Journal** ,1984 **Program Verification** Nissim Francez,1992 This textbook on program verification emphasises the role of verification in software development *Proceedings of the ... International Symposium on Microelectronics* ,1998 **Unmanned Systems Technology** ,2006 **Reports of Statistical Application Research** Nihon Kagaku Gijutsu Renmei,1971

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Toward Zero Defect Programming Introduction

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