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Lean Software Development 2003 providing a set of helpful thinking tools this text aims to assist in translating each lean principle to agile software development practices that match the needs of your domain

Software Development 2011-01-19 to understand the principles and practice of software development there is no better motivator than participating in a software project with real world value and a life beyond the academic arena software development an open source approach immerses students directly into an agile free and open source software foss development process it focus

Research Anthology on Agile Software, Software Development, and Testing 2021-11-26 software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change it is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software the research anthology on agile software software development and testing is a comprehensive resource on the emerging trends of software development and testing this text discusses the newest developments in agile software and its usage spanning multiple industries featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers it directors students managers faculty researchers and academicians

The Software Development Lifecycle - A Complete Guide 1995 this book provides a step by step guide to all the processes goals inputs outputs and many other aspects of a repeatable software methodology for any project from soup to nuts the whole shebang all in one place at an incredible price over 130 pages of knowledge any information technology organization must have a highly structured framework into which it can place processes principles and guidelines the framework used for software development is a called a lifecycle the software development lifecycle sdlc defines a repeatable process for building information system that incorporate guidelines methodologies and standards a lifecycle delivers value to an organization by addressing specific business needs within the software application development environment the implementation of a lifecycle aids project managers in minimizing system development risks eliminating redundancy and increasing efficiencies it also encourages reuse redesign and more importantly reducing costs

Dynamics of Software Development 2014-11-14 opening moves the organization the competition the customer the design development the middle game ship mode the launch appendix index

Lean Software Development in Action 2018-09-03 this book illustrates how goal oriented automated measurement can be used to create lean organizations and to facilitate the development of lean software while also demonstrating the practical implementation of lean software development by combining tried and trusted tools in order to be successful a lean orientation of software development has to go hand in hand with a company s overall business strategy to achieve this two interrelated aspects require special attention measurement and experience management in this book janes and succi provide the necessary knowledge to establish lean software company thinking while also exploiting the latest approaches to software measurement a comprehensive company wide measurement approach is exactly what companies need in order to align their activities to the demands of their stakeholders to their business strategy etc with the automatic non invasive measurement approach proposed in this book even small and medium sized enterprises that do not have the resources to introduce heavyweight processes will be able to make their software development processes considerably more lean the book is divided into three parts part i motivation for lean software development explains just what lean production means why it can be advantageous to apply lean concepts to software engineering and which existing approaches are best suited to achieving this part ii the pillars of lean software development presents the tools needed to achieve lean software development non invasive measurement the goal question metric approach and the experience factory finally part iii lean software development in action shows how different tools can be combined to enable lean thinking in software development the book primarily addresses the needs of all those working in the field of software engineering who want to understand how to establish an efficient and effective software development process this group includes developers managers and students pursuing an m sc degree in software engineering

Introduction to Software Engineering 2002 practical guidance on the efficient development of high quality software introduction to software engineering second edition equips students with the fundamentals to prepare them for satisfying careers as software engineers regardless of future changes in the field even if the changes are unpredictable or disruptive in nature retaining the same organization as its predecessor this second edition adds considerable material on open source and agile development models the text helps students understand software development techniques and processes at a reasonably sophisticated level students acquire practical experience through team software projects throughout much of the book a relatively large project is used to teach about the requirements design and coding of software in addition a continuing case study of an agile software development project offers a complete picture of how a successful agile project can work the book covers each major phase of the software development life cycle from developing software requirements to software maintenance it also discusses project management and explains how to read software engineering literature three appendices describe software patents command line arguments and flowcharts

Agile Software Development 2009-10-03 alastair cockburn offers advice on bringing difficult software development projects to a successful conclusion with a minimum of stress the volume is based on over 10 years of interviewing software project teams

Agile Software Development 2008-06 software development is moving towards a more agile and more flexible approach it turns out that the traditional waterfall model is not supportive in an environment where technical financial and strategic constraints are changing almost every day but what is agility what are today s major approaches and especially what is the impact of agile development principles on the development teams on project management and on software architects how can large enterprises become more agile and improve their business processes which have been existing since many many years what are the limitations of agility and what is the right balance between reliable structures and flexibility this book will give answers to these questions a strong emphasis will be on real life project examples which describe how development teams have moved from a waterfall model towards an agile software development approach

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Agile Software Development 2009-01-15 agile software development has become an umbrella term for a number of changes in how software developers plan and coordinate their work how they communicate with customers and external stakeholders and how software development is organized in small medium and large companies from the telecom and healthcare sectors to games and interactive media still after a decade of research agile software development is the source of continued debate due to its multifaceted nature and insufficient synthesis of

research results dings yr dyb and moe now present a comprehensive snapshot of the knowledge gained over many years of research by those working closely with or in the industry it shows the current state of research on agile software development through an introduction and ten invited contributions on the main research fields each written by renowned experts these chapters cover three main issues foundations and background of agile development agile methods in practice and principal challenges and new frontiers they show the important results in each subfield and in addition they explain what these results mean to practitioners as well as for future research in the field the book is aimed at reflective practitioners and researchers alike and it also can serve as the basis for graduate courses at universities

The Art of Lean Software Development 1999 this succinct book explains how you can apply the practices of lean software development to dramatically increase productivity and quality based on techniques that revolutionized japanese manufacturing lean principles are being applied successfully to product design engineering the supply chain and now software development with the art of lean software development you ll learn how to adopt lean practices one at a time rather than taking on the entire methodology at once as you master each practice you ll see significant measurable results with this book you will understand lean s origins from japanese industries and how it applies to software development learn the lean software development principles and the five most important practices in detail distinguish between the lean and agile methodologies and understand their similarities and differences determine which lean principles you should adopt first and how you can gradually incorporate more of the methodology into your process review hands on practices including descriptions benefits trade offs and roadblocks learn how to sell these principles to management the art of lean software development is ideal for busy people who want to improve the development process but can t afford the disruption of a sudden and complete transformation the lean approach has been yielding dramatic results for decades and with this book you can make incremental changes that will produce immediate benefits this book presents lean practices in a clear and concise manner so readers are motivated to make their software more reliable and less costly to maintain i recommend it to anyone looking for an easy to follow guide to transform how the developer views the process of writing good software bryan wells boeing intelligence security sytems mission system if you re new to lean software development and you re not quite sure where to start this book will help get your development process going in the right direction one step at a time john mcclenning software development lead aclara

The Unified Software Development Process 2006-09-29 this landmark book provides a thorough overview of the unified process for software development with a practical focus on modeling using the unified modeling language uml the unified process goes beyond mere object oriented analysis and design to spell out a proven family of techniques that supports the complete software development life cycle the result is a component based process that is use case driven architecture centric iterative and incremental the unified process takes full advantage of the industry standard unified modeling language this book demonstrates how the notation and process complement one another using uml models to illustrate the new process in action the authors clearly describe the semantics and notation of the different higher level constructs used in the models constructs such as use cases actors subsystems classes interfaces active classes processes threads nodes and most relations are described in the context of a model object technology practitioners and software engineers familiar with the authors past work will appreciate the unified software development process as a useful means of learning the current best practices in software development

Global Software Development Handbook 2007-06-04 economics and technology have dramatically re shaped the landscape of software development it is no longer uncommon to find a software development team dispersed across countries or continents geographically distributed development challenges the ability to clearly communicate enforce standards ensure quality levels and coordinate tasks global software development handbook explores techniques that can bridge distances create cohesion promote quality and strengthen lines of communication the book introduces techniques proven successful at international electronics and software giant siemens ag it shows how this multinational uses a high level process framework that balances agility and discipline for globally distributed software development the authors delineate an organizational structure that not only fosters team building but also achieves effective collaboration among the central and satellite teams the handbook explores the issues surrounding quality and the processes required to realize quality in a distributed environment communication is a tremendous challenge especially for teams separated by several time zones and the authors elucidate how to uncover patterns of communication among these teams to determine effective strategies for managing communication the authors analyze successful and failed projects and apply this information to how a project can be successful with distributed teams they also provide lightweight processes that can be dynamically adapted to the demands of any project

Software Engineering 2022-11-29 this is the most authoritative archive of barry boehm s contributions to software engineering featuring 42 reprinted articles along with an introduction and chapter summaries to provide context it serves as a how to reference manual for software engineering best practices it provides convenient access to boehm s landmark work on product development and management processes the book concludes with an insightful look to the future by dr boehm

A Friendly Guide to Software Development 2014-11-12 software is everywhere but despite being so common and useful it remains magical and mysterious to many still more and more people are finding themselves working for tech companies or with an array of software products services and tools this can segregate those who understand tech from those that don t but it doesn t have to be this way this book aims to bring these two worlds closer together allowing people to learn basic concepts of software development in a casual and straight forward way assuming no previous technical knowledge you ll embark on a journey where you can understand and build a new software project from scratch until it is an advanced product with multiple users a friendly guide to software development makes technical concepts broadly available and easy to understand imagine moving from a traditional company and suddenly finding yourself in one where software is the main product or is a foundational component to it one is often left to wade through the infinite concepts while still doing their actual jobs this book closes that gap in doing so you ll be able to achieve better communication which will undoubtedly lead to better working relationships a better working environment and ultimately better software what you ll learn see how a new software project is created examine the basics of software development and architecture know which questions to ask to avoid potential problems and pitfalls start using and building software projects who this book is for those without a traditional technical background people like business and project managers who need to work closely with software developers and teams people who are interested in building a software system but don t know where to start programmers who want to jump to development but have no experience in the industry and its common concepts

Practical Software Development Techniques 2015-03-03 this book provides an overview of tools and techniques used in enterprise software development many of which are not taught in academic programs or learned on the job this is an ideal resource containing lots of practical information and code examples that you need to master as a member of an enterprise development team this book aggregates many of these on the job tools and techniques into a concise format and presents them as both discussion topics and with code examples the reader

will not only get an overview of these tools and techniques but also several discussions concerning operational aspects of enterprise software development and how it differs from smaller development efforts for example in the chapter on design patterns and architecture the author describes the basics of design patterns but only highlights those that are more important in enterprise applications due to separation of duties enterprise security etc the architecture discussion revolves has a similar emphasis different teams may manage different aspects of the application s components with little or no access to the developer this aspect of restricted access is also mentioned in the section on logging theory of logging and discussions of what to log are briefly mentioned the configuration of the logging tools is demonstrated along with a discussion of why it s very important in an enterprise environment

Practical Enterprise Software Development Techniques 1999 this expanded and updated edition of practical enterprise software development techniques includes a new chapter which explains what makes enterprise scale software development different from other development endeavors chapter 4 has been expanded with additional coverage of code review bug tracker systems and agile software applications the chapter order has been changed in response to feedback from readers and instructors who have taught classes using the previous version which was also published by apress this book provides an overview of tools and techniques used in enterprise software development many of which are not taught in academic programs or learned on the job this is an ideal resource containing lots of practical information and code examples that you need to master as a member of an enterprise development team this book aggregates many of these on the job tools and techniques into a concise format and presents them as both discussion topics and with code examples the reader will not only get an overview of these tools and techniques but also several discussions concerning operational aspects of enterprise software development and how it differs from smaller development efforts for example in the chapter on design patterns and architecture the author describes the basics of design patterns but only highlights those that are more important in enterprise applications due to separation of duties enterprise security etc the architecture discussion revolves has a similar emphasis different teams may manage different aspects of the application s components with little or no access to the developer this aspect of restricted access is also mentioned in the section on logging theory of logging and discussions of what to log are briefly mentioned the configuration of the logging tools is demonstrated along with a discussion of why it s very important in an enterprise environment

The Unified Software Development Process 2009-10-20 proven 100 practical guidance for making scrum and agile work in any organization this is the definitive realistic actionable guide to starting fast with scrum and agile and then succeeding over the long haul leading agile consultant and practitioner mike cohn presents detailed recommendations powerful tips and real world case studies drawn from his unparalleled experience helping hundreds of software organizations make scrum and agile work succeeding with agile is for pragmatic software professionals who want real answers to the most difficult challenges they face in implementing scrum cohn covers every facet of the transition getting started helping individuals transition to new roles structuring teams scaling up working with a distributed team and finally implementing effective metrics and continuous improvement throughout cohn presents things to try now sections based on his most successful advice complementary objection sections reproduce typical conversations with those resisting change and offer practical guidance for addressing their concerns coverage includes practical ways to get started immediately and get good fast overcoming individual resistance to the changes scrum requires staffing scrum projects and building effective teams establishing improvement communities of people who are passionate about driving change choosing which agile technical practices to use or experiment with leading self organizing teams making the most of scrum sprints planning and quality techniques scaling scrum to distributed multiteam projects using scrum on projects with complex sequential processes or challenging compliance and governance requirements understanding scrum s impact on hr facilities and project management whether you ve completed a few sprints or multiple agile projects and whatever your role manager developer coach scrummaster product owner analyst team lead or project lead this book will help you succeed with your very next project then it will help you go much further it will help you transform your entire development organization

Succeeding with Agile 2017-07-04 get introduced to the fascinating world inhabited by the professional software developer aimed at a non technical audience this book aims to de obfuscate the jargon explain the various activities that coders undertake and analyze the specific pressures priorities and preoccupations that developers are prone to in each case it offers pragmatic advice on how to use this knowledge to make effective business decisions and work productively with software teams software projects are all too often utter nightmares for everyone involved depending on which study you read between 60 and 90 percent of all software projects are completed late run over budget or deliver an inferior quality end product this blight affects everyone from large organizations trying to roll out business change to tiny startups desperately trying to launch their mvp before the money runs out while there has been much attention devoted to understanding these failings leading to the development of entire management methodologies aimed at reducing the failure rate such new processes have had at best limited success in delivering better results based on a decade spent exploring the world of software patrick gleeson argues that the underlying reason for the high failure rate of software projects is that software development being a deeply arcane and idiosyncratic process tends to be thoroughly and disastrously misunderstood by managers and leaders so long as the people tasked with making decisions about software projects are unaware of these idiosyncrasies and their ramifications software projects will be delivered late software products will be unfit for purpose and relations between software developers and their non technical colleagues will be strained even the most potent modern management tools are ineffective when wielded blindly to anyone who employs contracts manages or works with software developers working with coders a guide to software development for the perplexed non techie delivers the understanding necessary to reduce friction and inefficiencies at the intersection between software development teams and their non technical colleagues what you ll learn discover why software projects are so commonly delivered late and with an abysmal end product examine why the relationship between coders and their non technical colleagues is often strained understand how the software development process works and how to support it effectively decipher and use the jargon of software development keep a team of coders happy and improve the odds of successful software project delivery who this book is for anyone who employs contracts or manages software developers such as tech startup ceos project managers and clients of digital agencies and wishes the relationship were easier and more productive the secondary readership is software developers who want to find ways of working more effectively as part of a team

Working with Coders 2019-12-20 the development of software has expanded substantially in recent years as these technologies continue to advance well known organizations have begun implementing these programs into the ways they conduct business these large companies play a vital role in the economic environment so understanding the software that they utilize is pertinent in many aspects researching and analyzing the tools that these corporations use will assist in the practice of software engineering and give other organizations an outline of how to successfully implement their own computational methods tools and techniques for software development in large organizations emerging research and opportunities is an essential reference source that discusses advanced software methods that prominent companies have adopted to develop high quality products this book will examine the various devices that

organizations such as google cisco and facebook have implemented into their production and development processes featuring research on topics such as database management quality assurance and machine learning this book is ideally designed for software engineers data scientists developers programmers professors researchers and students seeking coverage on the advancement of software devices in today s major corporations

Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities 2005-04-13 the new software management classic in the trenches wisdom from legendary project leader joe marasco over the course of a distinguished career joe marasco earned a reputation as the go to software project manager the one to call when you were facing a brutally tough make or break project marasco reflected on his experiences in a remarkable series of franklin s kite essays for the rational edge rational and ibm s online software development magazine now marasco collects and updates those essays bringing his unique insights and humor to everything from modeling to scheduling team dynamics to compensation the result a new classic that deserves a place alongside frederick brooks the mythical man month in the library of every developer and software manager if you want to ship products you re proud of ship on time and on budget deliver real customer value you simply must read the software development edge

The Software Development Edge 2008-12-26 provides information on successful software development covering such topics as customer requirements task estimates principles of good design dealing with source code system testing and handling bugs

Head First Software Development 2009 this book is about a significant step forward in software development it brings state of the art ontology reasoning into mainstream software development and its languages ontology driven software development is the essential comprehensive resource on enabling technologies consistency checking and process guidance for ontology driven software development odsd it demonstrates how to apply ontology reasoning in the lifecycle of software development using current and emerging standards and technologies you will learn new methodologies and infrastructures additionally illustrated using detailed industrial case studies the book will help you learn how ontology reasoning allows validations of structure models and key tasks in behavior models understand how to develop odsd guidance engines for important software development activities such as requirement engineering domain modeling and process refinement become familiar with semantic standards such as the ontology language owl and the sparql query language make use of ontology reasoning querying and justification techniques to integrate software models and to offer guidance and traceability supports this book is helpful for undergraduate students and professionals who are interested in studying how ontologies and related semantic reasoning can be applied to the software development process in addition itwill also be useful for postgraduate students professionals and researchers who are going to embark on their research in areas related to ontology or software engineering

Leading Lean Software Development 2012-12-22 since six sigma has had marked success in improving quality in other settings and since the quality of software remains poor it seems a natural evolution to apply the concepts and tools of six sigma to system development and the it department until now however there were no books available that applied these concepts to the system development p

Ontology-Driven Software Development 2014-10-31 get to the next level of your software development career learning the tools you need to successfully manage the complexity of modern software systems whether you are developer at a small software company or a large enterprise your success is directly related to the ability of your development team to rapidly respond to change what makes this task challenging is that the tech challenges we strive to overcome are becoming increasingly more complex requirements solution hosting support pace of change etc a good developer manages every aspect of the program and understands that when details and decisions are left to chance outcomes can be negatively impacted and result in increased errors due to substandard quality it is the difference between being a professional software engineer and a programmer you will know how look at the entire spectrum of the software development process and learn valuable concepts and apply these principles through meaningful examples exercises case studies and source code what you will learn know what it means to be a professional software engineer spend more time doing software development and minimize the pain of dealing with inefficient processes integrate lean and agile practices to reduce errors in judgment and provide predictable outcomes while still maintaining agility and responsiveness ensure a shared understanding in the group of stakeholders validate user experience early and often to minimize costly re work develop software designs and architectures that age well and enable long term business agility implement patterns and processes that result in developers falling into the pit of success instead of into the pit of failure adopt the necessary processes and patterns that will result in institutionalized quality that is pervasive redefine the important role of technical leadership to ensure team maturity and growth who this book is for software developers and team leaders who have struggled to implement design and development best practices due to lack of in depth knowledge or experience and want a book designed to provide the confidence and foundational skills needed to achieve success

Six Sigma Software Development 2001-05 get best in class engineering practices to help you write more robust bug free code two microsoft net development experts share real world examples and proven methods for optimizing the software development life cycle from avoiding costly programming pitfalls to making your development team more efficient managed code developers at all levels will find design prototyping implementation debugging and testing tips to boost the quality of their code today optimize each stage of the development process from design to testing and produce higher quality applications use metaprogramming to reduce code complexity while increasing flexibility and maintainability treat performance as a feature and manage it throughout the development life cycle apply best practices for application scalability employ preventative security measures to ward off malicious attacks practice defensive programming to catch bugs before run time incorporate automated builds code analysis and testing into the daily engineering process implement better source control management and check in procedures establish a quality driven milestone based project rhythm and improve your results

Successful Software Development Study Guide 2021-09-19 enterprise scale agile software development is the collective sum of knowledge accumulated during the full scale transition of a 1400 person organization to agile development considered the largest implementation of agile development and scrum ever attempted anywhere in the world now james schiel a certified scrum trainer and member of the scrum alliance draws from his experience at the helm of that global four year project to guide you and your organization through the transition he lends his insight on how you can use scrum as an organizational framework and implement xp practices to define how software is written and tested he provides key information and tools to assess potential outcomes and then make the best corresponding choices in any given situation schiel sequences chapters to match typical developmental progression and in addition to practical guidance he provides a tool kit from which you can take ideas and select what works for you covering quality development practices based on iso 9001 which help you create consistently high quality software in a cost efficient manner this invaluable resource shows you how to improve project management practices and product quality assurance adopt new management methods and requirements involve your current customers in development while inviting new ones much more than a mere body of knowledge this volume goes beyond standardizing agile and

scrum practices it breaks up the process into manageable tasks illustrating how to set the stage for the change plan it and then initiate it using the methods and information presented any organization should be able to achieve a nearly seamless transition to agile

Lean Software Systems Engineering for Developers 2009 understand the big picture of the software development process we use software every day operating systems applications document editing programs home banking but have you ever wondered who creates software and how it s created this book guides you through the entire process from conception to the finished product with the aid of user centric design theory and tools software development from a to z provides an overview of backend development from databases to communication protocols including practical programming skills in java and of frontend development from html and css to npm registry and vue js framework you ll review quality assurance engineering including the theory about different kind of tests and practicing end to end testing using selenium dive into the devops world where authors discuss continuous integration and continuous delivery processes along with each topic s associated technologies you ll then explore insightful product and project management coverage where authors talk about agile scrum and other processes from their own experience the topics that are covered do not require a deep knowledge of technology in general anyone possessing basic computer and programming knowledge will be able to complete all the tasks and fully understand the concepts this book aims at delivering you ll wear the hat of a project manager product owner designer backend frontend qa and devops engineer and find your favorite role what you ll learn understand the processes and roles involved in the creation of software organize your ideas when building the concept of a new product experience the work performed by stakeholders and other departments of expertise their individual challenges and how to overcome possible threats improve the ways stakeholders and departments can work with each othergain ideas on how to improve communication and processes who this book is for anyone who is on a team that creates software and is curious to learn more about other stakeholders or departments involved those interested in a career change and want to learn about how software gets created those who want to build technical startups and wonder what roles might be involved in the process

Solid Code 2009-11-18 economics and technology have dramatically re shaped the landscape of software development it is no longer uncommon to find a software development team dispersed across countries or continents geographically distributed development challenges the ability to clearly communicate enforce standards ensure quality levels and coordinate tasks global software development handbook explores techniques that can bridge distances create cohesion promote quality and strengthen lines of communication the book introduces techniques proven successful at international electronics and software giant siemens ag it shows how this multinational uses a high level process framework that balances agility and discipline for globally distributed software development the authors delineate an organizational structure that not only fosters team building but also achieves effective collaboration among the central and satellite teams the handbook explores the issues surrounding quality and the processes required to realize quality in a distributed environment communication is a tremendous challenge especially for teams separated by several time zones and the authors elucidate how to uncover patterns of communication among these teams to determine effective strategies for managing communication the authors analyze successful and failed projects and apply this information to how a project can be successful with distributed teams they also provide lightweight processes that can be dynamically adapted to the demands of any project

Enterprise-Scale Agile Software Development 2018-10-12 software testing presents one of the first comprehensive guides to testing activities ranging from test planning through test completion for every phase of software under development and software under revision real life case studies are provided to enhance understanding as well as a companion website with tools and examples

Software Development From A to Z 2006-09-29 for courses in software engineering and software reliability successful software development takes a systematic approach to consistently successful software development it proceeds from the fact that there is no one way to develop software systems and introduces a model for a mature software development process that accommodates flexibility the systems engineering environment see this model comprises two fundamental interlocked elements the policies and procedures that define how software development is performed and the technologies available to get the job done

Global Software Development Handbook 2007-07-27 this book explores how agile development practices in particular pair programming code review and automated testing help software development teams to perform better agile software engineering has become the standard software development paradigm over the last decade and the insights provided here are taken from a large scale survey of 80 professional software development teams working at sap se in germany in addition the book introduces a novel measurement tool for assessing the performance of software development teams no previous study has researched this topic with a similar data set comprising insights from more than 450 professional software engineers

Software Testing 2000-12-27 this is a book about the development of dependable embedded software it is for systems designers implementers and verifiers who are experienced in general embedded software development but who are now facing the prospect of delivering a software based system for a safety critical application it is aimed at those creating a product that must satisfy one or more of the international standards relating to safety critical applications including iec 61508 iso 26262 en 50128 en 50657 iec 62304 or related standards of the first edition stephen thomas pe founder and editor of functionalsafetyengineer com said i highly recommend mr hobbs book

Successful Software Development 2015-12-17 traditional software development methods struggle to keep pace with the accelerated pace and rapid change of internet era development several agile methodologies have been developed in response and these approaches to software development are showing exceptional promise in this book jim highsmith covers them all showing what they have in common where they differ and how to choose and customize the best agile approach for your needs key topics highsmith begins by introducing the values and principles shared by virtually all agile software development methods he presents detailed case studies from organizations that have used them as well as interviews with each method s principal authors or leading practitioners next he takes a closer look at the key features and techniques associated with each major agile approach extreme programming xp crystal methods scrum dynamic systems development method dsdm lean development adaptive software development asd and feature driven development fdd in part iii highsmith offers practical advice on customizing the optimal agile discipline for your own organization market for all software developers project managers and other it professionals seeking more flexible effective approaches to developing software

Agile Software Development Teams 2019-08-16 results based software management achieve better outcomes with finite resources effective software development is no longer merely an it concern today it is crucial to the entire enterprise however most businesspeople are not ready to make informed decisions about software initiatives the economics of iterative software development steering toward better business results will prepare them drawing on decades of software development and business experience the authors demonstrate how to utilize

practical economics based techniques to plan and manage software projects for maximum return on technology investments the authors begin by dispelling widespread myths about software costs explaining why traditional engineering based software management introduces unacceptable inefficiencies in today s development environments next they show business and technical managers how to combine the principles of economics and iterative development to achieve optimal results with limited resources using their techniques readers will learn how to build systems that enable maximum business innovation and process improvement and implement software processes that allow them to do so consistently highlights include how to repeatedly quantify the value a project is delivering and quickly adjust course as needed how to reduce software project size complexity and other project killers how to identify and eliminate software development processes that don t work how to improve development processes reduce rework mitigate risk and identify inefficiencies how to create more proficient teams by improving individual skills team interactions and organizational capability where to use integrated automated tools to improve effectiveness what to measure and when specific metrics for project inception elaboration construction and transition the economics of iterative software development steering toward better business results will help both business and technical managers make better decisions throughout the software development process and it will help team and project leaders keep any project or initiative on track so they can deliver more value faster

Embedded Software Development for Safety-Critical Systems, Second Edition 2002 writing in software development allan m stavely if you are a working programmer or a programming student writing is a skill that you can t neglect writing is part of any software project and good writing skills will make you more effective as a software developer writing can enhance your career prospects too sure you can write code to someone else s spec but what if you got to write the spec or the proposal for the project writing skills could even help you land your dream job in the first place like no other book on the market this book talks about writing in all aspects of software development including design documents documentation in the code and vice versa writing for review requirements and specifications the vision statement project proposal and project history webs of electronic documents this book tells you how to craft all these kinds of writing to make them as effective as they can be allan m stavely s career in software spans 35 years in education computer science new mexico tech industry ibm and hp in the us and uk consulting and writing he is the author of toward zero defect programming addison wesley contact him al nmt edu the publisher will donate a portion of the price of this book to new mexico tech for scholarships

Agile Software Development Ecosystems 2009-03-23

The Economics of Iterative Software Development 2011-07

Writing in Software Development

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