

# SOFTWARE

ERIC ELLIOTT

📖 **COMPOSING SOFTWARE** ERIC ELLIOTT,2018-12-27 ALL SOFTWARE DESIGN IS COMPOSITION: THE ACT OF BREAKING COMPLEX PROBLEMS DOWN INTO SMALLER PROBLEMS AND COMPOSING THOSE SOLUTIONS. MOST DEVELOPERS HAVE A LIMITED UNDERSTANDING OF COMPOSITIONAL TECHNIQUES. IT’S TIME FOR THAT TO CHANGE.IN COMPOSING SOFTWARE, ERIC ELLIOTT SHARES THE FUNDAMENTALS OF COMPOSITION, INCLUDING BOTH FUNCTION COMPOSITION AND OBJECT COMPOSITION, AND EXPLORES THEM IN THE CONTEXT OF JAVASCRIPT. THE BOOK COVERS THE FOUNDATIONS OF BOTH FUNCTIONAL PROGRAMMING AND OBJECT ORIENTED PROGRAMMING TO HELP THE READER BETTER UNDERSTAND HOW TO BUILD AND STRUCTURE COMPLEX APPLICATIONS USING SIMPLE BUILDING BLOCKS.YOU’LL LEARN: FUNCTIONAL PROGRAMMINGOBJECT COMPOSITIONHOW TO WORK WITH COMPOSITE DATA STRUCTURES CLOSURESHIGHER ORDER FUNCTIONSFUNCTORS (E.G., ARRAY.MAP)MONADS (E.G., PROMISES)TRANSDUCERSLENSESALL OF THIS IN THE CONTEXT OF JAVASCRIPT, THE MOST USED PROGRAMMING LANGUAGE IN THE WORLD. BUT THE LEARNING DOESN’T STOP AT JAVASCRIPT. YOU’LL BE ABLE TO APPLY THESE LESSONS TO ANY LANGUAGE. THIS BOOK IS ABOUT THE TIMELESS PRINCIPLES OF SOFTWARE COMPOSITION AND ITS LESSONS WILL OUTLAST THE HOT LANGUAGES AND FRAMEWORKS OF TODAY. UNLIKE MOST PROGRAMMING BOOKS, THIS ONE MAY STILL BE RELEVANT 20 YEARS FROM NOW.THIS BOOK BEGAN LIFE AS A POPULAR BLOG POST SERIES THAT ATTRACTED HUNDREDS OF THOUSANDS OF READERS AND INFLUENCED THE WAY SOFTWARE IS BUILT AT MANY HIGH GROWTH TECH STARTUPS AND FORTUNE 500 COMPANIES

📖 **MAKING SOFTWARE** ANDY ORAM,GREG WILSON,2010-10-14 MANY CLAIMS ARE MADE ABOUT HOW CERTAIN TOOLS, TECHNOLOGIES, AND PRACTICES IMPROVE SOFTWARE DEVELOPMENT. BUT WHICH CLAIMS ARE VERIFIABLE, AND WHICH ARE MERELY WISHFUL THINKING? IN THIS BOOK, LEADING THINKERS SUCH AS STEVE MCCONNELL, BARRY BOEHM, AND BARBARA KITCHENHAM OFFER ESSAYS THAT UNCOVER THE TRUTH AND UNMASK MYTHS COMMONLY HELD AMONG THE SOFTWARE DEVELOPMENT COMMUNITY. THEIR INSIGHTS MAY SURPRISE YOU. ARE SOME PROGRAMMERS REALLY TEN TIMES MORE PRODUCTIVE THAN OTHERS? DOES WRITING TESTS FIRST HELP YOU DEVELOP BETTER CODE FASTER? CAN CODE METRICS PREDICT THE NUMBER OF BUGS IN A PIECE OF SOFTWARE? DO DESIGN PATTERNS ACTUALLY MAKE BETTER SOFTWARE? WHAT EFFECT DOES PERSONALITY HAVE ON PAIR PROGRAMMING? WHAT MATTERS MORE: HOW FAR APART PEOPLE ARE GEOGRAPHICALLY, OR HOW FAR APART THEY ARE IN THE ORG CHART? CONTRIBUTORS INCLUDE: JORGE ARANDA TOM BALL VICTOR R. BASILI ANDREW BEGEL CHRISTIAN BIRD BARRY BOEHM MARCELO CATALDO STEVEN CLARKE JASON COHEN ROBERT DELINE MADELINE DIEP HAKAN ERDOGMUS MICHAEL GODFREY MARK GUZDIAL JO E. HANNAY AHMED E. HASSAN ISRAEL HERRAIZ KIM SEBASTIAN HERZIG CORY KAPSER BARBARA KITCHENHAM ANDREW KO LUCAS LAYMAN STEVE MCCONNELL TIM MENZIES GAIL MURPHY NACHI NAGAPPAN THOMAS J. OSTRAND DEWAYNE PERRY MARIAN PETRE LUTZ PRECHELT RAHUL PREMRAJ FORREST SHULL BETH SIMON DIOMIDIS SPINELLIS NEIL THOMAS WALTER TICHY BURAK TURHAN ELAINE J. WEYUKER MICHELE A. WHITECRAFT LAURIE WILLIAMS WENDY M. WILLIAMS ANDREAS ZELLER THOMAS ZIMMERMANN

📖 **JUST ENOUGH SOFTWARE ARCHITECTURE** GEORGE FAIRBANKS,2010-08-30 THIS IS A PRACTICAL GUIDE FOR SOFTWARE DEVELOPERS, AND DIFFERENT THAN OTHER SOFTWARE ARCHITECTURE BOOKS. HERE’S WHY: IT TEACHES RISK-DRIVEN ARCHITECTING. THERE IS NO NEED FOR METICULOUS DESIGNS WHEN RISKS ARE SMALL, NOR ANY EXCUSE FOR SLOPPY DESIGNS WHEN RISKS THREATEN YOUR SUCCESS. THIS BOOK DESCRIBES A WAY TO DO JUST ENOUGH ARCHITECTURE. IT AVOIDS THE ONE-SIZE-FITS-ALL PROCESS TAR PIT WITH ADVICE ON HOW TO TUNE YOUR DESIGN EFFORT BASED ON THE RISKS YOU FACE. IT DEMOCRATIZES ARCHITECTURE. THIS BOOK SEEKS TO MAKE ARCHITECTURE RELEVANT TO ALL SOFTWARE DEVELOPERS. DEVELOPERS NEED TO UNDERSTAND HOW TO USE CONSTRAINTS AS GUIDERAILS THAT ENSURE DESIRED OUTCOMES, AND HOW SEEMINGLY SMALL CHANGES CAN AFFECT A SYSTEM’S PROPERTIES. IT CULTIVATES DECLARATIVE KNOWLEDGE. THERE IS A DIFFERENCE BETWEEN BEING ABLE TO HIT A BALL AND KNOWING WHY YOU ARE ABLE TO HIT IT, WHAT PSYCHOLOGISTS REFER TO AS PROCEDURAL KNOWLEDGE VERSUS DECLARATIVE KNOWLEDGE. THIS BOOK WILL MAKE YOU MORE AWARE OF WHAT YOU HAVE BEEN DOING AND PROVIDE NAMES FOR THE CONCEPTS. IT EMPHASIZES THE ENGINEERING. THIS BOOK FOCUSES ON THE TECHNICAL PARTS OF SOFTWARE DEVELOPMENT AND WHAT DEVELOPERS DO TO ENSURE THE SYSTEM WORKS NOT JOB TITLES OR PROCESSES. IT SHOWS YOU HOW TO BUILD MODELS AND ANALYZE ARCHITECTURES SO THAT YOU CAN MAKE PRINCIPLED DESIGN TRADEOFFS. IT DESCRIBES THE TECHNIQUES SOFTWARE DESIGNERS USE TO REASON ABOUT MEDIUM TO LARGE SIZED PROBLEMS AND POINTS OUT WHERE YOU CAN LEARN SPECIALIZED TECHNIQUES IN MORE DETAIL. IT PROVIDES PRACTICAL ADVICE. SOFTWARE DESIGN DECISIONS INFLUENCE THE ARCHITECTURE AND VICE VERSA. THE APPROACH IN THIS BOOK EMBRACES DRILL-DOWN/POP-UP BEHAVIOR BY DESCRIBING MODELS THAT HAVE VARIOUS LEVELS OF ABSTRACTION, FROM ARCHITECTURE TO DATA STRUCTURE DESIGN.

📖 **TESTING COMPUTER SOFTWARE** CEM KANER,JACK FALK,HUNG Q. NGUYEN,1999-04-26 THIS BOOK WILL TEACH YOU HOW TO TEST COMPUTER SOFTWARE UNDER REAL-WORLD CONDITIONS. THE AUTHORS HAVE ALL BEEN TEST MANAGERS AND SOFTWARE DEVELOPMENT MANAGERS AT WELL-KNOWN SILICON VALLEY SOFTWARE COMPANIES. SUCCESSFUL CONSUMER SOFTWARE COMPANIES HAVE LEARNED HOW TO PRODUCE HIGH-QUALITY PRODUCTS UNDER TIGHT TIME AND BUDGET CONSTRAINTS. THE BOOK EXPLAINS THE TESTING SIDE OF THAT SUCCESS. WHO THIS BOOK IS FOR: \* TESTERS AND TEST MANAGERS \* PROJECT MANAGERS-UNDERSTAND THE TIMELINE, DEPTH OF INVESTIGATION, AND QUALITY OF COMMUNICATION TO HOLD TESTERS ACCOUNTABLE FOR. \* PROGRAMMERS-GAIN INSIGHT INTO THE SOURCES OF ERRORS IN YOUR CODE, UNDERSTAND WHAT TESTS YOUR WORK WILL HAVE TO PASS, AND WHY TESTERS DO THE THINGS THEY DO. \* STUDENTS-TRAIN FOR AN ENTRY-LEVEL POSITION IN SOFTWARE DEVELOPMENT. WHAT YOU WILL LEARN: \* HOW TO FIND IMPORTANT BUGS QUICKLY \* HOW TO DESCRIBE SOFTWARE ERRORS CLEARLY \* HOW TO CREATE A TESTING PLAN WITH A MINIMUM OF PAPERWORK \* HOW TO DESIGN AND USE A BUG-TRACKING SYSTEM \* WHERE TESTING FITS IN THE PRODUCT DEVELOPMENT PROCESS \* HOW TO TEST PRODUCTS THAT WILL BE TRANSLATED INTO OTHER LANGUAGES \* HOW TO TEST FOR COMPATIBILITY WITH DEVICES, SUCH AS PRINTERS \* WHAT LAWS APPLY TO SOFTWARE QUALITY

📖 **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.

📖 **SOFTWARE FORTRESSES** ROGER SESSIONS,2003 THIS BOOK INTRODUCES A NEW APPROACH FOR MODELING LARGE ENTERPRISE SYSTEMS: THE SOFTWARE FORTRESS MODEL. IN THE SOFTWARE FORTRESS MODEL, AN ENTERPRISE ARCHITECTURE IS VIEWED AS A SERIES OF SELF-CONTAINED, MUTUALLY SUSPICIOUS, MARGINALLY COOPERATING SOFTWARE FORTRESSES INTERACTING WITH EACH OTHER THROUGH CAREFULLY CRAFTED AND METICULOUSLY MANAGED TREATY RELATIONSHIPS. THE SOFTWARE FORTRESS MODEL IS AN INTUITIVE, SIMPLE, EXPRESSIVE APPROACH THAT MAPS READILY TO EXISTING TECHNOLOGIES SUCH AS .NET AND JAVA 2 ENTERPRISE EDITION (J2EE). THIS BOOK IS DESIGNED TO MEET AN IMMEDIATE NEED TO DEFINE, CLARIFY, AND EXPLAIN THE BASICS OF THIS NEW MODELING METHODOLOGY FOR LARGE ENTERPRISE SOFTWARE ARCHITECTURES. SOFTWARE FORTRESSES IS YOUR ESSENTIAL ROADMAP TO ALL ASPECTS OF SOFTWARE FORTRESSES. KEY TOPICS INCLUDE: THE FUNDAMENTAL CONCEPTS AND TERMINOLOGY OF SOFTWARE FORTRESSES DOCUMENTATION TECHNIQUES, INCLUDING FORTRESS ALLY RESPONSIBILITY CARDS (BASED ON CLASS RESPONSIBILITY CARDS) AND SEQUENCE ALLY DIAGRAMS (BASED ON UML’S CLASS SEQUENCE DIAGRAMS) THE PROPER USE OF DRAWBRIDGES TO PROVIDE FORTRESS INTEROPERABILITY THE INNOVATIVE SOFTWARE FORTRESS MODEL FOR ENTERPRISE SECURITY CORRECT DESIGN APPROACHES TO FORTRESS WALLS, WHICH KEEP INTRUDERS OUT, AND TO GUARDS, WHICH LET ALLIES IN. THE ROLE OF LOOSELY COUPLED AND TIGHTLY COUPLED TRANSACTIONS IN A SOFTWARE FORTRESS ARCHITECTURE DESIGN AND TECHNOLOGY ISSUES ASSOCIATED WITH THE SIX MAJOR SOFTWARE FORTRESS TYPES THIS BOOK IS A MUST-READ FOR ALL ENTERPRISE SOFTWARE PROFESSIONALS, WHETHER YOU ARE A MANAGER SEEKING TO REIN IN RUN-AWAY ENTERPRISE SYSTEM COMPLEXITY, AN ARCHITECT SEEKING TO DESIGN INTEROPERABLE, SCALABLE, AND HIGHLY SECURE SYSTEMS, A CONSULTANT EXPECTED TO GIVE ADVICE ON HOW .NET AND J2EE FIT INTO THE ENTERPRISE SPACE, AN IMPLEMENTER WANTING TO UNDERSTAND HOW YOUR SYSTEM RELATES TO A LARGER ENTERPRISE ARCHITECTURE, OR A BUSINESS ANALYST NEEDING TO KNOW THAT YOUR SYSTEM REQUIREMENTS WILL BE TRANSLATED INTO A SUCCESSFUL SOFTWARE IMPLEMENTATION. 0321166086B12202002

📖 **MORE JOEL ON SOFTWARE** AVRAM JOEL SPOLSKY,2008-09-27 JOEL, APRESS, BLOGS, AND BLOOKS ...I WAS LEARNING THE HARD WAY ABOUT HOW TO BE A PUBLISHER AND PROBABLY SPENDING WAY TOO MUCH TIME LOOKING AT WEB SITES AND PROGRAMMING THAN I SHOULD HAVE IN RESPONSE TO THAT. ANYWAY, ONE DAY I CAME ACROSS THIS WEB SITE CALLED , WHICH WAS RUN BY A GUY WITH STRONG OPINIONS AND AN UNUSUAL, CLEVER WRITING STYLE, ALONG WITH A WILLINGNESS TO TAKE ON THE CONVENTIONAL WISDOM. IN PARTICULAR, HE WAS WRITING THIS ONGOING SERIES ABOUT HOW BAD MOST USER INTERFACES WERE—MOSTLY BECAUSE PROGRAMMERS BY AND LARGE KNEW, AS JOEL AND I WOULD SAY, USING THE SAME YIDDISH-DERIVED NYC VERNACULAR THAT WE BOTH SHARE, “BUPKIS” ABOUT WHAT USERS REALLY WANT. AND I, LIKE MANY, WAS HOOKED BOTH BY THE SERIES AND THE OCCASIONAL RANDOM ESSAY THAT JOEL WROTE. AND THEN I HAD THIS EPIPHANY: I’M A PUBLISHER, I LIKE READING HIS STUFF, WHY NOT TURN IT INTO A BOOK?... READ THE COMPLETE FOREWORD — GARY CORNELL, COFOUNDER, APRESS SINCE THE RELEASE OF THE BESTSELLING TITLE JOEL ON SOFTWARE IN 2004, REQUESTS FOR A SEQUEL HAVE BEEN RELENTLESS. SO, WE WENT BACK TO THE FAMED JOELONSOFTWARE.COM ARCHIVES AND PULLED OUT A NEW BATCH OF FAVORITES, MANY OF WHICH HAVE BEEN DOWNLOADED OVER ONE MILLION TIMES. WITH JOEL’S NEWEST BOOK, MORE JOEL ON SOFTWARE, YOU’LL GET AN EVEN BETTER (NOT TO MENTION UPDATED) FEAST OF JOEL’S OPINIONS AND IMPRESSIONS ON SOFTWARE DEVELOPMENT, SOFTWARE DESIGN, RUNNING A SOFTWARE BUSINESS, AND SO MUCH MORE. THIS IS A NEW SELECTION OF ESSAYS FROM THE AUTHOR’S WEB SITE, HTTP://WWW.JOELONSOFTWARE.COM. JOEL SPOLSKY STARTED HIS WEBLOG IN MARCH 2000 IN ORDER TO OFFER HIS INSIGHTS, BASED ON YEARS OF EXPERIENCE, ON HOW TO IMPROVE THE WORLD OF PROGRAMMING. THIS WEBLOG HAS BECOME INFAMOUS AMONG THE PROGRAMMING WORLD, AND IS LINKED TO MORE THAN 600 OTHER WEB SITES AND TRANSLATED INTO 30+ LANGUAGES! SPOLSKY’S EXTRAORDINARY WRITING SKILLS, TECHNICAL KNOWLEDGE, AND CAUSTIC WIT HAVE MADE HIM A PROGRAMMING GURU. WITH THE SUCCESS OF JOEL ON SOFTWARE, THERE HAS BEEN A STRONG DEMAND FOR ADDITIONAL GEMS AND ADVICE, AND THIS BOOK IS THE ANSWER TO THOSE REQUESTS. CONTAINING A COLLECTION OF ALL-NEW ARTICLES FROM THE ORIGINAL, MORE JOEL ON SOFTWARE HAS EVEN MORE OF AN EDGE THAN THE ORIGINAL, AND THE TIPS FOR RUNNING A BUSINESS OR MANAGING PEOPLE HAVE FAR BROADER APPLICATION THAN THE SOFTWARE INDUSTRY. WE FEEL IT IS SAFE TO SAY THAT THIS IS THE MOST USEFUL BOOK YOU WILL BUY THIS YEAR.

📖 **SOFTWARE ESTIMATION** STEVE MCCONNELL,2006-02-22 OFTEN REFERRED TO AS THE “BLACK ART” BECAUSE OF ITS COMPLEXITY AND UNCERTAINTY, SOFTWARE ESTIMATION IS NOT AS DIFFICULT OR PUZZLING AS PEOPLE THINK. IN FACT, GENERATING ACCURATE ESTIMATES IS STRAIGHTFORWARD—ONCE YOU UNDERSTAND THE ART OF CREATING THEM. IN HIS HIGHLY ANTICIPATED BOOK, ACCLAIMED AUTHOR STEVE MCCONNELL UNRAVELS THE MYSTERY TO SUCCESSFUL SOFTWARE ESTIMATION—DISTILLING ACADEMIC INFORMATION AND REAL-WORLD EXPERIENCE INTO A PRACTICAL GUIDE FOR WORKING SOFTWARE PROFESSIONALS. INSTEAD OF ARCAINE TREATISES AND RIGID MODELING TECHNIQUES, THIS GUIDE HIGHLIGHTS A PROVEN SET OF PROCEDURES, UNDERSTANDABLE FORMULAS, AND HEURISTICS THAT INDIVIDUALS AND DEVELOPMENT TEAMS CAN APPLY TO THEIR PROJECTS TO HELP ACHIEVE ESTIMATION PROFICIENCY. DISCOVER HOW TO: ESTIMATE SCHEDULE AND COST—OR ESTIMATE THE FUNCTIONALITY THAT CAN BE DELIVERED WITHIN A GIVEN TIME FRAME AVOID COMMON SOFTWARE ESTIMATION MISTAKES LEARN ESTIMATION TECHNIQUES FOR YOU, YOUR TEAM, AND YOUR ORGANIZATION \* ESTIMATE SPECIFIC PROJECT ACTIVITIES—including DEVELOPMENT, MANAGEMENT, AND DEFECT CORRECTION APPLY ESTIMATION APPROACHES TO ANY TYPE OF PROJECT—SMALL OR LARGE, AGILE OR TRADITIONAL NAVIGATE THE SHARK-INFESTED POLITICAL WATERS THAT SURROUND PROJECT ESTIMATES WHEN MANY CORPORATE SOFTWARE PROJECTS ARE FAILING, MCCONNELL SHOWS YOU WHAT WORKS FOR SUCCESSFUL SOFTWARE ESTIMATION.

📖 **A PHILOSOPHY OF SOFTWARE DESIGN** JOHN OUSTERHOUT,2018-04-10

📖 **SOFTWARE EVOLUTION AND FEEDBACK** NAZIM H. MADHAVJI,JUAN FERNANDEZ-RAMIL,DEWAYNE PERRY,2006-08-30 EVOLUTION OF SOFTWARE HAS LONG BEEN RECOGNIZED AS ONE OF THE MOST PROBLEMATIC AND CHALLENGING AREAS IN THE FIELD OF SOFTWARE ENGINEERING, AS EVIDENCED BY THE HIGH, OFTEN UP TO 60-80%, LIFE-CYCLE COSTS ATTRIBUTED TO THIS ACTIVITY OVER THE LIFE OF A SOFTWARE SYSTEM. STUDIES OF SOFTWARE EVOLUTION ARE CENTRAL TO THE UNDERSTANDING AND PRACTICE OF SOFTWARE DEVELOPMENT. YET IT HAS

RECEIVED RELATIVELY LITTLE ATTENTION IN THE FIELD OF SOFTWARE ENGINEERING. THIS BOOK FOCUSES ON TOPICS AIMED AT GIVING A SCIENTIFIC INSIGHT INTO THE ASPECT OF SOFTWARE EVOLUTION AND FEEDBACK. IN SUMMARY, THE BOOK COVERS CONCEPTUAL, PHENOMENOLOGICAL, EMPIRICAL, TECHNOLOGICAL AND THEORETICAL ASPECTS OF THE FIELD OF SOFTWARE EVOLUTION - WITH CONTRIBUTIONS FROM THE LEADING EXPERTS. THIS BOOK DELIVERS AN UP-TO-DATE SCIENTIFIC UNDERSTANDING OF WHAT SOFTWARE EVOLUTION IS, TO SHOW WHY IT IS INEVITABLE FOR REAL WORLD APPLICATIONS, AND IT DEMONSTRATES THE ROLE OF FEEDBACK IN SOFTWARE DEVELOPMENT AND MAINTENANCE. THE BOOK ALSO ADDRESSES SOME OF THE PHENOMENOLOGICAL AND TECHNOLOGICAL UNDERPINNINGS AND INCLUDES RULES AND GUIDELINES FOR INCREASED SOFTWARE EVOLVABILITY AND, IN GENERAL, SUSTAINABILITY OF THE EVOLUTION PROCESS. SOFTWARE EVOLUTION AND FEEDBACK PROVIDES A LONG OVERDUE, SCIENTIFIC FOCUS ON SOFTWARE EVOLUTION AND THE ROLE OF FEEDBACK IN THE SOFTWARE PROCESS, MAKING THIS THE INDISPENSABLE GUIDE FOR ALL SOFTWARE PRACTITIONERS, RESEARCHERS AND MANAGERS IN THE SOFTWARE INDUSTRY.

📖 **SOFTWARE DESIGN FOR SIX SIGMA** BASEM S. EL-HAIK,ADNAN SHAOUT,2011-02-16 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.

📖 **SOFTWARE ENGINEERING AT GOOGLE** TITUS WINTERS,TOM MANSHRECK,HYRUM WRIGHT,2020-02-28 TODAY, SOFTWARE ENGINEERS NEED TO KNOW NOT ONLY HOW TO PROGRAM EFFECTIVELY BUT ALSO HOW TO DEVELOP PROPER ENGINEERING PRACTICES TO MAKE THEIR CODEBASE SUSTAINABLE AND HEALTHY. THIS BOOK EMPHASIZES THIS DIFFERENCE BETWEEN PROGRAMMING AND SOFTWARE ENGINEERING. HOW CAN SOFTWARE ENGINEERS MANAGE A LIVING CODEBASE THAT EVOLVES AND RESPONDS TO CHANGING REQUIREMENTS AND DEMANDS OVER THE LENGTH OF ITS LIFE? BASED ON THEIR EXPERIENCE AT GOOGLE, SOFTWARE ENGINEERS TITUS WINTERS AND HYRUM WRIGHT, ALONG WITH TECHNICAL WRITER TOM MANSHRECK, PRESENT A CANDID AND INSIGHTFUL LOOK AT HOW SOME OF THE WORLD’S LEADING PRACTITIONERS CONSTRUCT AND MAINTAIN SOFTWARE. THIS BOOK COVERS GOOGLE’S UNIQUE ENGINEERING CULTURE, PROCESSES, AND TOOLS AND HOW THESE ASPECTS CONTRIBUTE TO THE EFFECTIVENESS OF AN ENGINEERING ORGANIZATION. YOU’LL EXPLORE THREE FUNDAMENTAL PRINCIPLES THAT SOFTWARE ORGANIZATIONS SHOULD KEEP IN MIND WHEN DESIGNING, ARCHITECTING, WRITING, AND MAINTAINING CODE: HOW TIME AFFECTS THE SUSTAINABILITY OF SOFTWARE AND HOW TO MAKE YOUR CODE RESILIENT OVER TIME HOW SCALE AFFECTS THE VIABILITY OF SOFTWARE PRACTICES WITHIN AN ENGINEERING ORGANIZATION WHAT TRADE-OFFS A TYPICAL ENGINEER NEEDS TO MAKE WHEN EVALUATING DESIGN AND DEVELOPMENT DECISIONS

📖 **THE SOFTWARE ARTS** WARREN SACK,2019-04-09 AN ALTERNATIVE HISTORY OF SOFTWARE THAT PLACES THE LIBERAL ARTS AT THE VERY CENTER OF SOFTWARE’S EVOLUTION. IN THE SOFTWARE ARTS, WARREN SACK OFFERS AN ALTERNATIVE HISTORY OF COMPUTING THAT PLACES THE ARTS AT THE VERY CENTER OF SOFTWARE’S EVOLUTION. TRACING THE ORIGINS OF SOFTWARE TO EIGHTEENTH-CENTURY FRENCH ENCYCLOPEDISTS’ STEP-BY-STEP DESCRIPTIONS OF HOW THINGS WERE MADE IN THE WORKSHOPS OF ARTISTS AND ARTISANS, SACK SHOWS THAT PROGRAMMING LANGUAGES ARE THE OFFSPRING OF AN EFFORT TO DESCRIBE THE MECHANICAL ARTS IN THE LANGUAGE OF THE LIBERAL ARTS. SACK OFFERS A READING OF THE TEXTS OF COMPUTING—CODE, ALGORITHMS, AND TECHNICAL PAPERS—THAT EMPHASIZES CONTINUITY BETWEEN PROSE AND PROGRAMS. HE TRANSLATES CONCEPTS AND CATEGORIES FROM THE LIBERAL AND MECHANICAL ARTS—including LOGIC, RHETORIC, GRAMMAR, LEARNING, ALGORITHM, LANGUAGE, AND SIMULATION—INTO TERMS OF COMPUTER SCIENCE AND THEN CONSIDERS THEIR FURTHER TRANSLATION INTO POPULAR CULTURE, WHERE THEY CIRCULATE AS FORMS OF DIGITAL LIFE. HE CONSIDERS, AMONG OTHER TOPICS, THE “ARITHMETIZATION” OF KNOWLEDGE THAT PRESAGED DIGITIZATION; TODAY’S MULTITUDE OF LOGICS; THE HISTORY OF DEMONSTRATION, FROM DEDUCTION TO NEWER FORMS OF PERSUASION; AND THE POST-CHOMSKY ABSENCE OF MEANING IN GRAMMAR. WITH THE SOFTWARE ARTS, SACK INVITES ARTISTS AND HUMANISTS TO SEE HOW THEIR IDEAS ARE AT THE ROOT OF SOFTWARE AND INVITES COMPUTER SCIENTISTS TO ENVISION THEMSELVES AS ARTISTS AND HUMANISTS.

📖 **RIGHTING SOFTWARE** JUVAL LEWY,2019-11-27 RIGHT YOUR SOFTWARE AND TRANSFORM YOUR CAREER RIGHTING SOFTWARE PRESENTS THE PROVEN, STRUCTURED, AND HIGHLY ENGINEERED APPROACH TO SOFTWARE DESIGN THAT RENOWNED ARCHITECT JUVAL LEWY HAS PRACTICED AND TAUGHT AROUND THE WORLD. ALTHOUGH COMPANIES OF EVERY KIND HAVE SUCCESSFULLY IMPLEMENTED HIS ORIGINAL DESIGN IDEAS ACROSS HUNDREDS OF SYSTEMS, THESE INSIGHTS HAVE NEVER BEFORE APPEARED IN PRINT. BASED ON FIRST PRINCIPLES IN SOFTWARE ENGINEERING AND A COMPREHENSIVE SET OF MATCHING TOOLS AND TECHNIQUES, LEWY’S METHODOLOGY INTEGRATES SYSTEM DESIGN AND PROJECT DESIGN. FIRST, HE DESCRIBES THE PRIMARY AREA WHERE MANY SOFTWARE ARCHITECTS FAIL AND SHOWS HOW TO DECOMPOSE A SYSTEM INTO SMALLER BUILDING BLOCKS OR SERVICES, BASED ON VOLATILITY. NEXT, HE SHOWS HOW TO FLOW AN EFFECTIVE PROJECT DESIGN FROM THE SYSTEM DESIGN; HOW TO ACCURATELY CALCULATE THE PROJECT DURATION, COST, AND RISK; AND HOW TO DEVISE MULTIPLE EXECUTION OPTIONS. THE METHOD AND PRINCIPLES IN RIGHTING SOFTWARE APPLY REGARDLESS OF YOUR PROJECT AND COMPANY SIZE, TECHNOLOGY, PLATFORM, OR INDUSTRY. LEWY STARTS THE READER ON A JOURNEY THAT ADDRESSES THE CRITICAL CHALLENGES OF SOFTWARE DEVELOPMENT TODAY BY RIGHTING SOFTWARE SYSTEMS AND PROJECTS AS WELL AS CAREERS—and POSSIBLY THE SOFTWARE INDUSTRY AS A WHOLE. SOFTWARE PROFESSIONALS, ARCHITECTS, PROJECT LEADS, OR MANAGERS AT ANY STAGE OF THEIR CAREER WILL BENEFIT GREATLY FROM THIS BOOK, WHICH PROVIDES GUIDANCE AND KNOWLEDGE THAT WOULD OTHERWISE TAKE DECADES AND MANY PROJECTS TO ACQUIRE. REGISTER YOUR BOOK FOR CONVENIENT ACCESS TO DOWNLOADS, UPDATES, AND/OR CORRECTIONS AS THEY BECOME AVAILABLE. SEE INSIDE BOOK FOR DETAILS.

📖 **CONCISE GUIDE TO SOFTWARE ENGINEERING** GERARD O’REGAN,2022-09-24 THIS TEXTBOOK PRESENTS A CONCISE INTRODUCTION TO THE FUNDAMENTAL PRINCIPLES OF SOFTWARE ENGINEERING, TOGETHER WITH PRACTICAL GUIDANCE ON HOW TO APPLY THE THEORY IN A REAL-WORLD, INDUSTRIAL ENVIRONMENT. THE WIDE-RANGING COVERAGE ENCOMPASSES ALL AREAS OF SOFTWARE DESIGN, MANAGEMENT, AND QUALITY. TOPICS AND FEATURES: PRESENTS A BROAD OVERVIEW OF SOFTWARE ENGINEERING, INCLUDING SOFTWARE LIFECYCLES AND PHASES IN SOFTWARE DEVELOPMENT, AND PROJECT MANAGEMENT FOR SOFTWARE ENGINEERING; EXAMINES THE AREAS OF REQUIREMENTS ENGINEERING, SOFTWARE CONFIGURATION MANAGEMENT, SOFTWARE INSPECTIONS, SOFTWARE TESTING, SOFTWARE QUALITY ASSURANCE, AND PROCESS QUALITY; COVERS TOPICS ON SOFTWARE METRICS AND PROBLEM SOLVING, SOFTWARE RELIABILITY AND DEPENDABILITY, AND SOFTWARE DESIGN AND DEVELOPMENT, INCLUDING AGILE APPROACHES; EXPLAINS FORMAL METHODS, A SET OF MATHEMATICAL TECHNIQUES TO SPECIFY AND DERIVE A PROGRAM FROM ITS SPECIFICATION, INTRODUCING THE Z SPECIFICATION LANGUAGE; DISCUSSES SOFTWARE PROCESS IMPROVEMENT, DESCRIBING THE CMMI MODEL, AND INTRODUCES UML, A VISUAL MODELLING LANGUAGE FOR SOFTWARE SYSTEMS; REVIEWS A RANGE OF TOOLS TO SUPPORT VARIOUS ACTIVITIES IN SOFTWARE ENGINEERING, AND OFFERS ADVICE ON THE SELECTION AND MANAGEMENT OF A SOFTWARE SUPPLIER; DESCRIBES SUCH INNOVATIONS IN THE FIELD OF SOFTWARE AS DISTRIBUTED SYSTEMS, SERVICE-ORIENTED ARCHITECTURE, SOFTWARE AS A SERVICE, CLOUD COMPUTING, AND EMBEDDED SYSTEMS; INCLUDES KEY LEARNING TOPICS, SUMMARIES AND REVIEW QUESTIONS IN EACH CHAPTER, TOGETHER WITH A USEFUL GLOSSARY. THIS PRACTICAL AND EASY-TO-FOLLOW TEXTBOOK/REFERENCE IS IDEAL FOR COMPUTER SCIENCE STUDENTS SEEKING TO LEARN HOW TO BUILD HIGH QUALITY AND RELIABLE SOFTWARE ON TIME AND ON BUDGET. THE TEXT ALSO SERVES AS A SELF-STUDY PRIMER FOR SOFTWARE ENGINEERS, QUALITY PROFESSIONALS, AND SOFTWARE MANAGERS.


📖 **MANAGING THE SOFTWARE PROCESS** HUMPHREY,1989-09

📖 **SUCCESSING WITH AGILE** MIKE COHN,2010 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.

📖 **SURREPTITIOUS SOFTWARE** JASVIR NAGRA,CHRISTIAN COLLBERG,2009-07-24 “THIS BOOK GIVES THOROUGH, SCHOLARLY COVERAGE OF AN AREA OF GROWING IMPORTANCE IN COMPUTER SECURITY AND IS A ‘MUST HAVE’ FOR EVERY RESEARCHER, STUDENT, AND PRACTICING PROFESSIONAL IN SOFTWARE PROTECTION.” —MIKHAIL ATALLAH, DISTINGUISHED PROFESSOR OF COMPUTER SCIENCE AT PURDUE UNIVERSITY THEORY, TECHNIQUES, AND TOOLS FOR FIGHTING SOFTWARE PIRACY, TAMPERING, AND MALICIOUS REVERSE ENGINEERING THE LAST DECADE HAS SEEN SIGNIFICANT PROGRESS IN THE DEVELOPMENT OF TECHNIQUES FOR RESISTING SOFTWARE PIRACY AND TAMPERING. THESE TECHNIQUES ARE INDISPENSABLE FOR SOFTWARE DEVELOPERS SEEKING TO PROTECT VITAL INTELLECTUAL PROPERTY. SURREPTITIOUS SOFTWARE IS THE FIRST AUTHORITATIVE, COMPREHENSIVE RESOURCE FOR RESEARCHERS, DEVELOPERS, AND STUDENTS WHO WANT TO UNDERSTAND THESE APPROACHES, THE LEVEL OF SECURITY THEY AFFORD, AND THE PERFORMANCE PENALTY THEY INCUR. CHRISTIAN COLLBERG AND JASVIR NAGRA BRING TOGETHER TECHNIQUES DRAWN FROM RELATED AREAS OF COMPUTER SCIENCE, INCLUDING CRYPTOGRAPHY, STEGANOGRAPHY, WATERMARKING, SOFTWARE METRICS, REVERSE ENGINEERING, AND COMPILER OPTIMIZATION. USING EXTENSIVE SAMPLE CODE, THEY SHOW READERS HOW TO IMPLEMENT PROTECTION SCHEMES RANGING FROM CODE OBFUSCATION AND SOFTWARE FINGERPRINTING TO TAMPERPROOFING AND BIRTHMARKING, AND DISCUSS THE THEORETICAL AND PRACTICAL LIMITATIONS OF THESE TECHNIQUES. COVERAGE INCLUDES MASTERING TECHNIQUES THAT BOTH ATTACKERS AND DEFENDERS USE TO ANALYZE PROGRAMS USING CODE OBFUSCATION TO MAKE SOFTWARE HARDER TO ANALYZE AND UNDERSTAND FINGERPRINTING SOFTWARE TO IDENTIFY ITS AUTHOR AND TO TRACE SOFTWARE PIRATES TAMPERPROOFING SOFTWARE USING GUARDS THAT DETECT AND RESPOND TO ILLEGAL MODIFICATIONS OF CODE AND DATA STRENGTHENING CONTENT PROTECTION THROUGH DYNAMIC WATERMARKING AND DYNAMIC OBFUSCATION DETECTING CODE THEFT VIA SOFTWARE SIMILARITY ANALYSIS AND BIRTHMARKING ALGORITHMS USING HARDWARE TECHNIQUES TO DEFEND SOFTWARE AND MEDIA AGAINST PIRACY AND TAMPERING DETECTING SOFTWARE TAMPERING IN DISTRIBUTED SYSTEM UNDERSTANDING THE THEORETICAL LIMITS OF CODE OBFUSCATION

📖 **SOFTWARE COST ESTIMATION, BENCHMARKING, AND RISK ASSESSMENT** ADAM TRENDOWICZ,2013-01-10 SOFTWARE EFFORT ESTIMATION IS A KEY ELEMENT OF SOFTWARE PROJECT PLANNING AND MANAGEMENT. YET, IN INDUSTRIAL PRACTICE, THE IMPORTANT ROLE OF EFFORT ESTIMATION IS OFTEN UNDERESTIMATED AND/OR MISUNDERSTOOD. IN THIS BOOK, ADAM

TRENDOWICZ PRESENTS THE CoBRA METHOD (AN ABBREVIATION FOR COST ESTIMATION, BENCHMARKING, AND RISK ASSESSMENT) FOR ESTIMATING THE EFFORT REQUIRED TO SUCCESSFULLY COMPLETE A SOFTWARE DEVELOPMENT PROJECT, WHICH UNIQUELY COMBINES HUMAN JUDGMENT AND MEASUREMENT DATA IN ORDER TO SYSTEMATICALLY CREATE A CUSTOM-SPECIFIC EFFORT ESTIMATION MODEL. CoBRA GOES FAR BEYOND SIMPLY PREDICTING THE DEVELOPMENT EFFORT; IT SUPPORTS PROJECT DECISION-MAKERS IN NEGOTIATING THE PROJECT SCOPE, MANAGING PROJECT RISKS, BENCHMARKING PRODUCTIVITY, AND DIRECTING IMPROVEMENT ACTIVITIES. TO ILLUSTRATE THE METHOD’S PRACTICAL USE, THE BOOK REPORTS SEVERAL REAL-WORLD CASES WHERE CoBRA WAS APPLIED IN VARIOUS INDUSTRIAL CONTEXTS. THESE CASES REPRESENT DIFFERENT ESTIMATION CONTEXTS IN TERMS OF SOFTWARE PROJECT ENVIRONMENT, ESTIMATION OBJECTIVES, AND ESTIMATION CONSTRAINTS. THIS BOOK IS THE RESULT OF A SUCCESSFUL COLLABORATION BETWEEN THE PROCESS MANAGEMENT DIVISION OF FRAUNHOFER IESE AND MANY SOFTWARE COMPANIES IN THE FIELD OF SOFTWARE ENGINEERING TECHNOLOGY TRANSFER. IT MAINLY ADDRESSES SOFTWARE PRACTITIONERS WHO DEAL WITH PLANNING AND MANAGING SOFTWARE DEVELOPMENT PROJECTS AS PART OF THEIR DAILY WORK, AND IS ALSO OF INTEREST FOR STUDENTS OR COURSES SPECIALIZING IN SOFTWARE ENGINEERING OR SOFTWARE PROJECT MANAGEMENT.

 **HANDS-ON SOFTWARE ENGINEERING WITH PYTHON** BRIAN ALLBEE, 2018-10-26 EXPLORE VARIOUS VERTICALS IN SOFTWARE ENGINEERING THROUGH HIGH-END SYSTEMS USING PYTHON KEY FEATURES MASTER THE TOOLS AND TECHNIQUES USED IN SOFTWARE ENGINEERING EVALUATES AVAILABLE DATABASE OPTIONS AND SELECTS ONE FOR THE FINAL CENTRAL OFFICE SYSTEM-COMPONENTS EXPERIENCE THE ITERATIONS SOFTWARE GO THROUGH AND CRAFT ENTERPRISE-GRADE SYSTEMS BOOK DESCRIPTION SOFTWARE ENGINEERING IS ABOUT MORE THAN JUST WRITING CODE--IT INCLUDES A HOST OF SOFT SKILLS THAT APPLY TO ALMOST ANY DEVELOPMENT EFFORT, NO MATTER WHAT THE LANGUAGE, DEVELOPMENT METHODOLOGY, OR SCOPE OF THE PROJECT. BEING A SENIOR DEVELOPER ALL BUT REQUIRES AWARENESS OF HOW THOSE SKILLS, ALONG WITH THEIR EXPECTED TECHNICAL COUNTERPARTS, MESH TOGETHER THROUGH A PROJECT’S LIFE CYCLE. THIS BOOK WALKS YOU THROUGH THAT DISCOVERY BY GOING OVER THE ENTIRE LIFE CYCLE OF A MULTI-TIER SYSTEM AND ITS RELATED SOFTWARE PROJECTS. YOU’LL SEE WHAT HAPPENS BEFORE ANY DEVELOPMENT TAKES PLACE, AND WHAT IMPACT THE DECISIONS AND DESIGNS MADE AT EACH STEP HAVE ON THE DEVELOPMENT PROCESS. THE DEVELOPMENT OF THE ENTIRE PROJECT, OVER THE COURSE OF SEVERAL ITERATIONS BASED ON REAL-WORLD AGILE ITERATIONS, WILL BE EXECUTED, SOMETIMES STARTING FROM NOTHING, IN ONE OF THE FASTEST GROWING LANGUAGES IN THE WORLD--PYTHON. APPLICATION OF PRACTICES IN PYTHON WILL BE LAID OUT, ALONG WITH A NUMBER OF PYTHON-SPECIFIC CAPABILITIES THAT ARE OFTEN OVERLOOKED. FINALLY, THE BOOK WILL IMPLEMENT A HIGH-PERFORMANCE COMPUTING SOLUTION, FROM FIRST PRINCIPLES THROUGH COMPLETE FOUNDATION. WHAT YOU WILL LEARN UNDERSTAND WHAT HAPPENS OVER THE COURSE OF A SYSTEM’S LIFE (SDLC) ESTABLISH WHAT TO EXPECT FROM THE PRE-DEVELOPMENT LIFE CYCLE STEPS FIND OUT HOW THE DEVELOPMENT-SPECIFIC PHASES OF THE SDLC AFFECT DEVELOPMENT UNCOVER WHAT A REAL-WORLD DEVELOPMENT PROCESS MIGHT BE LIKE, IN AN AGILE WAY FIND OUT HOW TO DO MORE THAN JUST WRITE THE CODE IDENTIFY THE EXISTENCE OF PROJECT-INDEPENDENT BEST PRACTICES AND HOW TO USE THEM FIND OUT HOW TO DESIGN AND IMPLEMENT A HIGH-PERFORMANCE COMPUTING PROCESS WHO THIS BOOK IS FOR HANDS-ON SOFTWARE ENGINEERING WITH PYTHON IS FOR YOU IF YOU ARE A DEVELOPER HAVING BASIC UNDERSTANDING OF PROGRAMMING AND ITS PARADIGMS AND WANT TO SKILL UP AS A SENIOR PROGRAMMER. IT IS ASSUMED THAT YOU HAVE BASIC PYTHON KNOWLEDGE.

RECOGNIZING THE HABIT WAYS TO GET THIS BOOKS **SOFTWARE** IS ADDITIONALLY USEFUL. YOU HAVE REMAINED IN RIGHT SITE TO BEGIN GETTING THIS INFO. GET THE SOFTWARE ASSOCIATE THAT WE PAY FOR HERE AND CHECK OUT THE LINK.

YOU COULD PURCHASE GUIDE SOFTWARE OR ACQUIRE IT AS SOON AS FEASIBLE. YOU COULD QUICKLY DOWNLOAD THIS SOFTWARE AFTER GETTING DEAL. SO, LATER THAN YOU REQUIRE THE BOOK SWIFTLY, YOU CAN STRAIGHT ACQUIRE IT. ITS FOR THAT REASON NO QUESTION SIMPLE AND AS A RESULT FATS, ISNT IT? YOU HAVE TO FAVOR TO IN THIS LOOK

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SOFTWARE INTRODUCTION

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