

Program Development In Java By Barbara Liskov

Der Beitrag von Frauen zur Entwicklung der Quantentheorie. Use of the SOLID principles with the IEC 61131-3 Software Design Patterns in Rust Connecting Discrete Mathematics and Computer Science C++ Software Design Masterminds of Programming International Workshop on Software Specification and Design [proceedings]. Networking in Open Systems Conference Record of the Fifth Annual ACM Symposium on Principles of Programming Languages ACM 78 SWE ACM SIGPLAN Notices Bibliographic Guide to Computer Science Galaxy Raiders: Abyss OOPSLA '87 ECOOP ... OOPSLA ECOOP '90 Proceedings Proceedings of the Second International Workshop on Object Orientation in Operating Systems, September 24-25, 1992, Dourdan, France Preventing Attacks in Peer-to-peer Document Preservation Systems Tutorial, Programming Language Design Bruno Del Medico Stefan Henneken Evan Pradipta Hardinatha David Liben-Nowell Klaus Iglberger Federico Biancuzzi IBM European Networking Center (Heidelberg, Germany) Association for Computing Machinery Ian Douglas Norman Meyrowitz Norman Meyrowitz Luis-Felipe Cabrera T. J. Giuli Anthony I. Wasserman

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die wissenschaft war viele jahrhunderte lang ein von männern dominierter bereich dies liegt nicht an mangelndem talent oder mangelnder intuition der frauen sondern an den sozialen und kulturellen strukturen die sie systematisch ausgrenzen dieses phänomen ist in der geschichte der physik besonders deutlich zu erkennen und noch deutlicher in der entwicklung der quantentheorie was wäre aus der modernen wissenschaft geworden wenn die namen dieser frauen ebenso anerkannt worden wären wie die ihrer männlichen kollegen dies ist eine frage die unsere zeit nicht länger ignorieren kann ein paradebeispiel für diese historische unsichtbarkeit ist die geschichte von lise meitner einer außergewöhnlichen physikerin die zur entdeckung der kernspaltung beitrug im jahr 1938 wurde die alleinige ehre für diese entdeckung seinem langjährigen kollegen otto hahn zugeschrieben der dafür später den nobelpreis erhielt lise meitner hingegen wurde an den rand der wissenschaftsgeschichte gedrängt trotz ihrer grundlegenden berechnungen die uns das verständnis des kernspaltungsprozesses ermöglichten ein geist der nie die klarheit verlor so beschrieb albert einstein sie doch das reichte nicht aus um ihr anerkennung zu sichern lise meitner die jüdin war und vor nazi deutschland fliehen musste übte ihre arbeit in einem kontext aus der sowohl ihrem geschlecht als auch ihrer identität feindlich gegenüberstand die geschichte dieser frauen ist nicht nur wissenschaftlich sondern auch zutiefst kulturell sogar in der welt der literatur wird das thema der unsichtbarkeit von frauen in intellektuellen berufen immer wieder eindringlich thematisiert virginia woolf dachte in ihrem berühmten essay ein zimmer für sich allein 1929 darüber nach was eine junge frau vom genie shakespeares hätte tun können wenn sie in seiner zeit gelebt hätte woolf stellte sich vor dass diese figur judith shakespeare nie die gelegenheit haben würde aufzutauchen dasselbe bild lässt sich perfekt auf die wissenschaft übertragen wie viele frauen besaßen das genie und die klarheit einer marie curie hatten jedoch nie zugang zu den ressourcen laboren oder kooperationsnetzwerken die für ihre entfaltung erforderlich waren besonders interessant ist der fall der quantentheorie dieser zweig der physik der unser verständnis der subatomaren welt verändert hat konnte dank einer gemeinschaft brillanter köpfe darunter viele frauen wachsen allerdings sind nur wenige namen in die historische erzählung eingeprägt geblieben eine davon ist die von

maria goeppert mayer der zweiten frau in der geschichte die für ihr modell des atomkerns einen nobelpreis für physik erhielt 1963 maria arbeitete jahrelang unter prekären bedingungen oft ohne angemessenes gehalt eingeschränkt durch die vorurteile gegenüber frauen die ehefrauen von wissenschaftlern sind dennoch war sein beitrag grundlegend für die moderne physik Über die einzelnen beispiele hinaus gibt es eine umfassendere reflexion über das warum dieser unsichtbarkeit in der vergangenheit wurden die forschungsergebnisse von frauen unter den namen ihrer ehemänner oder männlichen kollegen veröffentlicht was es schwierig machte ihre tatsächlichen beiträge zu identifizieren in vielen fällen wurde frauen sogar der zutritt zu universitäten oder laboren verboten ein symbolträchtiges beispiel hierfür ist die royal society of london eine der renommiertesten wissenschaftlichen institutionen der welt die ihre erste frau erst 1945 also fast drei jahrhunderte nach ihrer gründung als mitglied aufnahm es überrascht daher nicht dass viele dieser frauen selbst im öffentlichen und wissenschaftlichen gedächtnis nur am rande erwähnt werden auch heute noch sind ihre geschichten oft unbekannt dennoch beeinflusst ihre arbeit weiterhin zutiefst unsere sicht auf die welt ohne die köpfe dieser frauen wäre die quantenphysik nicht das was sie ist Über frauen und die wissenschaft und insbesondere über ihre errungenschaften in der welt der quantentheorie zu schreiben ist nicht nur ein akt historischer gerechtigkeit es ist auch eine reflexion über die gegenwart und die zukunft das ziel aller besteht nicht nur darin verlorene namen und geschichten wiederzuentdecken sondern neue generationen von mädchen und jungen zu inspirieren sich eine welt vorzustellen in der genie kein geschlecht hat wolfs vision und das engagement von frauen wie meitner und goeppert mayer müssen für alle die sich heute mit der wissenschaft beschäftigen ein vorbild sein und uns daran erinnern dass sich wissen nur dann wirklich entwickelt wenn jeder die möglichkeit hat seinen beitrag zu leisten das buch beschränkt sich nicht darauf große entdeckungen wiederzugeben sondern möchte vielmehr eine reflexion darüber anregen wie eine umfassendere beteiligung an der wissenschaft zu neuen möglichkeiten des weltverständnisses führen kann die persönlichen beispiele der protagonisten verwoben mit dem sozialen und philosophischen kontext schaffen für den leser eine kraftvolle und zum nachdenken anregende erzählung

solid principles are an essential part of object oriented software development and have proven to be valuable tools for

developing clean maintainable and extensible code in industrial automation engineering especially in programming controllers with iec 61131 3 it is of particular importance to develop robust and reliable systems in this book solid principles are presented in detail and explained with examples in iec 61131 3 it also illustrates how the application of these principles improves the maintainability extensibility and reliability of software systems in addition to the solid principles the principles kiss dry lod and yagni are also presented these do not belong to the group of solid principles but they are a helpful addition

elevate your code with rust introducing software design patterns in rust the premier modern guide to mastering software design patterns using rust s powerful features whether you re new to rust or a seasoned developer this groundbreaking book uniquely integrates rust s ownership model and type system with established design patterns empowering you to craft robust efficient and maintainable software why choose software design patterns in rust comprehensive patterns dive deep into essential design patterns tailored specifically for rust from creational to structural and behavioral patterns modern integration leverage rust s unique ownership model and advanced type system to implement design patterns more effectively and safely practical implementation benefit from hands on examples and insightful explanations that bridge the gap between theory and real world application interactive learning engage with numerous code snippets and interactive exercises that reinforce your understanding and boost your coding proficiency unlock the benefits robust software build scalable and maintainable applications with clean organized code enhanced efficiency optimize performance by harnessing rust s low level control without sacrificing safety maintainable codebase utilize proven design patterns to create flexible and adaptable software architectures with software design patterns in rust you ll explore how to seamlessly blend rust s cutting edge features with timeless design principles each chapter is crafted to provide a deep dive into both the theoretical foundations and practical implementations ensuring you not only learn but also apply your knowledge to solve complex programming challenges perfect for students seeking a solid foundation in software design patterns with a modern programming language professionals aiming to enhance their software engineering skills and optimize their rust projects developers of all levels who want to write cleaner more efficient and more maintainable code

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computer science majors taking a non programming based course like discrete mathematics might ask why do i need to learn this written with these students in mind this text introduces the mathematical foundations of computer science by providing a comprehensive treatment of standard technical topics while simultaneously illustrating some of the broad ranging applications of that material throughout the field chapters on core topics from discrete structures like logic proofs number theory counting probability graphs are augmented with around 60 computer science connections pages introducing their applications for example game trees logic triangulation of scenes in computer graphics induction the enigma machine counting algorithmic bias relations differential privacy probability and paired kidney transplants graphs pedagogical features include why you might care sections quick reference chapter guides and key terms and results summaries problem solving and writing tips taking it further asides with more technical details and around 1700 exercises 435 worked examples and 480 figures

good software design is essential for the success of your project but designing software is hard to do you need to have a deep understanding of the consequences of design decisions and a good overview of available design alternatives with this book experienced c developers will get a thorough practical and unparalleled overview of software design with this modern language c trainer and consultant klaus iglberger explains how you can manage dependencies and abstractions improve changeability and extensibility of software entities and apply and implement modern design patterns to help you take advantage of today s possibilities software design is the most essential aspect of a software project because it impacts the software s most important properties maintainability changeability and extensibility learn how to evaluate your code with respect to software design understand what software design is including design goals such as changeability and

extensibility explore the advantages and disadvantages of each design approach learn how design patterns help solve problems and express intent choose the right form of a design pattern to get the most out of its advantages

masterminds of programming features exclusive interviews with the creators of several historic and highly influential programming languages in this unique collection you ll learn about the processes that led to specific design decisions including the goals they had in mind the trade offs they had to make and how their experiences have left an impact on programming today masterminds of programming includes individual interviews with adin d falkoff apl thomas e kurtz basic charles h moore forth robin milner ml donald d chamberlin sql alfred aho peter weinberger and brian kernighan awk charles geschke and john warnock postscript bjarne stroustrup c bertrand meyer eiffel brad cox and tom love objective c larry wall perl simon peyton jones paul hudak philip wadler and john hughes haskell guido van rossum python luiz henrique de figueiredo and roberto ierusalimschy lua james gosling java grady booch ivar jacobson and james rumbaugh uml anders hejlsberg delphi inventor and lead developer of c if you re interested in the people whose vision and hard work helped shape the computer industry you ll find masterminds of programming fascinating

the riveting and deeply immersive first installment in a new military sci fi series pitting amortal humans against a mystifying alien intelligence in a galaxy spanning conflict from new york times bestselling author ian douglas centuries in the future the galactic authority reigns over millions of advanced civilizations throughout the cosmos from deep within the galactic core the authority s principal mind has won the allegiance of myriad nations offering security connection and access to a network of interstellar gates in exchange for compliance while technological advancement has brought interstellar travel and life extending procedures to earth humans are struggling to maintain their sovereignty and cultural identity the galactic authority s presence and technological prowess looms large eliciting both awe and apprehension from a human society that finds itself at a crossroads yield to the allure of advanced alien technologies or preserve their autonomy in an increasingly fractious cosmic landscape naval captain alexandra morrigan has little trust for the authority and by all accounts war is brewing when the extrasolar colony at sirius goes silent suspicions arise that galactic forces or

their proxies are pressuring humankind into submission to preserve any hope of earth's future morrigan and the forces she commands will do the unthinkable travel through the abyss gate and make one last stand against the galactic forces whose powers may defy comprehension

presents programming language design and recent advances in the field

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