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DANIEL E. ROSE



FROM
MATHEMATICS
TO
GENERIC
PROGRAMMING

From Mathematics To Generic Programming

Mircea Pitici



From Mathematics To Generic Programming:

From Mathematics to Generic Programming Alexander A. Stepanov, Daniel E. Rose, 2015 *From Mathematics to Generic Programming* Alexander A. Stepanov, Daniel E. Rose, 2014 This book is a great introduction to the core principles of generic programming for the experienced programmer The authors work through examples showing how to analyze the requirements of an algorithm and make it as general as possible The book includes several programming laws of particular interest to those building software components The authors show how programmers can become more effective by learning about the idea of abstraction and the math it relies on In an engaging and accessible fashion they describe how these mathematical results were first discovered and are surprisingly useful in programming *Programming with Types* Vlad Riscutia, 2019-10-31 Summary *Programming with Types* teaches you to design safe resilient correct software that's easy to maintain and understand by taking advantage of the power of strong type systems Designed to provide practical instantly useful techniques for working developers this clearly written tutorial introduces you to using type systems to support everyday programming tasks About the technology Common bugs often result from mismatched data types By precisely naming and controlling which data are allowable in a calculation a strong type system can eliminate whole classes of errors and ensure data integrity throughout an application As a developer skillfully using types in your everyday practice leads to better code and saves time tracking down tricky data related errors About the book *Programming with Types* teaches type based techniques for writing software that's safe correct easy to maintain and practically self documenting Designed for working developers this clearly written tutorial sticks with the practical benefits of type systems for everyday programming tasks Following real world examples coded in TypeScript you'll build your skills from primitive types up to more advanced concepts like functors and monads What's inside Building data structures with primitive types arrays and references How types affect functions inheritance and composition Object oriented programming with types Applying generics and higher kinded types About the reader You'll need experience with a mainstream programming language like TypeScript Java JavaScript C or C About the author Vlad Riscutia is a principal software engineer at Microsoft He has headed up several major software projects and mentors up and coming software engineers **Learning Modern C++ for Finance** Daniel Hanson, 2024-11-04 This practical book demonstrates why C is still one of the dominant production quality languages for financial applications and systems Many programmers believe that C is too difficult to learn Author Daniel Hanson demonstrates that this is no longer the case thanks to modern features added to the C Standard beginning in 2011 Financial programmers will discover how to leverage C abstractions that enable safe implementation of financial models You'll also explore how popular open source libraries provide additional weapons for attacking mathematical problems C programmers unfamiliar with financial applications also benefit from this handy guide Learn C basics from a modern perspective syntax inheritance polymorphism composition STL containers and algorithms Dive into newer features and abstractions including

functional programming using lambdas task based concurrency and smart pointers Implement basic numerical routines in modern C Understand best practices for writing clean and efficient code *Cyber-Physical Systems: Modelling and Industrial Application* Alla G. Kravets,Alexander A. Bolshakov,Maxim Shcherbakov,2022-03-26 This book discusses the open questions regarding the modelling of cyber physical systems and their application in different industries The industry needs new approaches to improve its competitiveness The concept of cyber physical systems supports such changes with the need to find new modelling tools becoming a key challenge The book contains five section covering the following topics cyber physical systems modelling IoT and signal processing cyber physical systems intelligent control cyber physical systems industrial implementation and the production of the new material for cyber physical systems These approaches on the one hand should ensure the execution of current business processes and on the other hand ensure a quick speed of reactions to changes The target audience of the book are practitioners enterprises representatives scientists PhD and Master students who perform scientific research on modelling and industrial application of cyber physical systems *Mathematics in Programming* Xinyu Liu,2024-07-10 The book presents the mathematical view and tools of computer programming with broad and friendly context It explains the basic concepts such as recursion computation model types data and etc The book serves as an introductory and reference guide to the engineers students researchers and professionals who are interested in functional programming type system and computer programming languages The book covers seven topics Firstly it lays out the number system based on Peano Axioms and demonstrates the isomorphic computer data structures Then it introduces Lambda calculus as a computing model and recursion an important programming structure with the Y combinator It next presents the basic abstract algebra including group and fields and provides a friendly introduction to Galois theory After that it uses category theory as a tool to explain several concepts in computer programming including the type system polymorphism null handler and recursive data types then followed by an application of program optimization In the last two chapters the author shows how to program with the concept of infinity through stream and lazy evaluation and then explains the na ve set theory and transfinite numbers from which the logic paradox arises Finally it introduces four historical views of mathematical foundation as well as G del s incompleteness theorems developed in 1930s and how they define the boundaries of computer programming Additionally the book provides biographies stories and anecdotes of 25 mathematicians along with over 130 exercises and their corresponding answers *Mathematics of Program Construction* Dexter Kozen,Carron Shankland,2004-06-24 This book constitutes the refereed proceedings of the 7th International Conference on the Mathematics of Program Construction MPC 2004 held in Stirling Scotland UK in July 2004 The 19 revised full papers presented were carefully reviewed and selected from 37 submissions Among the topics addressed are programming theory programming methodology program specification program transformation programming paradigms programming calculi and programming language semantics *Mathematics of Program Construction* Tarmo Uustalu,2006-06-29 This book

constitutes the refereed proceedings of the 8th International Conference on Mathematics of Program Construction MPC 2006 held in Kuressaare Estonia in July 2006 The book collects 22 revised full papers presented with 3 invited talks Issues addressed range from algorithmics to support for program construction in programming languages and systems Topics of special interest are type systems program analysis and transformation programming language semantics program logics

The Best Writing on Mathematics 2015 Mircea Pitici, 2016-01-12 The year's finest writing on mathematics from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it's worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed **Central**

European Functional Programming School Viktória Zsók, Zoltán Porkoláb, Zoltán Horváth, 2019-08-13 This volume presents the revised lecture notes of selected talks given at the 6th Central European Functional Programming School CEFPS 2015 held in July 2015 in Budapest Hungary The 10 revised full papers presented were carefully reviewed and selected The lectures covered a wide range of functional programming and C programming subjects

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