Functional

Scott Wlaschin

Domain Modeling Made Functional Scott Wlaschin,2018-01-25 You want increased customer satisfaction, faster development cycles, and less wasted work. Domain-driven design (DDD) combined with functional programming is the innovative combo that will get you there. In this pragmatic, down-to-earth guide, you'll see how applying the core principles of functional programming can result in software designs that model real-world requirements both elegantly and concisely – often more so than an object-oriented approach. Practical examples in the open-source F# functional language, and examples from familiar business domains, show you how to apply these techniques to build software that is business-focused, flexible, and high quality. Domain-driven design is a well-established approach to designing software that ensures that domain experts and developers work together effectively to create high-quality software. This book is the first to combine DDD with techniques from statically typed functional programming. This book is perfect for newcomers to DDD or functional programming – all the techniques you need will be introduced and explained. Model a complex domain accurately using the F# type system, creating compilable code that is also readable documentation---ensuring that the code and design never get out of sync. Encode business rules in the design so that you have compile-time unit tests, and eliminate many potential bugs by making illegal states unrepresentable. Assemble a series of small, testable functions into a complete use case, and compose these individual scenarios into a large-scale design. Discover why the combination of functional programming and DDD leads naturally to service-oriented and hexagonal architectures. Finally, create a functional domain model that works with traditional databases, NoSQL, and event stores, and safely expose your domain via a website or API. Solve real problems by focusing on real-world requirements for your software. What You Need: The code in this book is designed to be run interactively on Windows, Mac and Linux.You will need a recent version of F# (4.0 or greater), and the appropriate .NET runtime for your platform.Full installation instructions for all platforms at fsharp.org.

Functional Analysis, Calculus of Variations and Optimal Control Francis Clarke,2013-02-06 Functional analysis owes much of its early impetus to problems that arise in the calculus of variations. In turn, the methods developed there have been applied to optimal control, an area that also requires new tools, such as nonsmooth analysis. This self-contained textbook gives a complete course on all these topics. It is written by a leading specialist who is also a noted expositor. This book provides a thorough introduction to functional analysis and includes many novel elements as well as the standard topics. A short course on nonsmooth analysis and geometry completes the first half of the book whilst the second half concerns the calculus of variations and optimal control. The author provides a comprehensive course on these subjects, from their inception through to the present. A notable feature is the inclusion of recent, unifying developments on regularity, multiplier rules, and the Pontryagin maximum principle, which appear here for the first time in a textbook. Other major themes include existence and Hamilton-Jacobi methods. The many substantial examples, and the more than three hundred exercises, treat such topics as viscosity solutions, nonsmooth Lagrangians, the logarithmic Sobolev inequality, periodic trajectories, and systems theory. They also touch lightly upon several fields of application: mechanics, economics, resources, finance, control engineering. Functional Analysis, Calculus of Variations and Optimal Control is intended to support several different courses at the first-year or second-year graduate level, on functional analysis, on the calculus of variations and optimal control, or on some combination. For this reason, it has been organized with customization in mind. The text also has considerable value as a reference. Besides its advanced results in the calculus of variations and optimal control, its polished presentation of certain other topics (for example convex analysis, measurable selections, metric regularity, and nonsmooth analysis) will be appreciated by researchers in these and related fields.

The Theory of Functional Grammar: The structure of the clause Simon C. Dik,1997 Introduction When one takes a functional approach to the study of natural languages, the ultimate questions one is interested in can be formulated as: How does the natural language user (NLU) work? How do speakers and addressees succeed ...

Functional Equations and How to Solve Them Christopher G. Small,2007-04-03 Many books have been written on the theory of functional equations, but very few help readers solve functional equations in mathematics competitions and mathematical problem solving. This book fills that gap. Each chapter includes a list of problems associated with the covered material. These vary in difficulty, with the easiest being accessible to any high school student who has read the chapter carefully. The most difficult will challenge students studying for the International Mathematical Olympiad or the Putnam Competition. An appendix provides a springboard for further investigation of the concepts of limits, infinite series and continuity.

Applied Functional Analysis, Second Edition J. Tinsley Oden,Leszek Demkowicz,2010-03-02 Through numerous illustrative examples and comments, Applied Functional Analysis, Second Edition demonstrates the rigor of logic and systematic, mathematical thinking. It presents the mathematical foundations that lead to classical results in functional analysis. More specifically, the text prepares students to learn the variational theory of partial differential equations, distributions and Sobolev spaces, and numerical analysis with an emphasis on finite element methods. While retaining the structure of its best-selling predecessor, this second edition includes revisions of many original examples, along with new examples that often reflect the authors' own vast research experiences and perspectives. This edition also provides many more exercises as well as a solutions manual for qualifying instructors. Each chapter begins with an extensive introduction and concludes with a summary and historical comments that frequently refer to other sources. New to the Second Edition Completely revised section on lim sup and lim inf New discussions of connected sets, probability, Bayesian statistical inference, and the generalized (integral) Minkowski inequality New sections on elements of multilinear algebra and determinants, the singular value decomposition theorem, the Cauchy principal value, and Hadamard finite part integrals New example of a Lebesgue non-measurable set Ideal for a two-semester course, this proven textbook teaches students how to prove theorems and prepares them for further study of more advanced mathematical topics. It helps them succeed in formulating research questions in a mathematically rigorous way.

Functional Anatomy of Yoga David Keil,2023-01-17 A full-color illustrated exploration of the body in motion during yoga practice • Examines anatomical patterns and body mechanics in specific asanas, such as forward bends, twists, external hip rotations, arm balances, and back bends, to inspire confidence in students, deepen practice, and prevent injury • Provides detailed images and photos overlaid with anatomical diagrams, allowing you to see clearly what is happening within each asana discussed • Explores how various yoga postures interrelate from the perspective of functional anatomy In this full-color illustrated guide, David Keil brings the anatomy of the body in yoga asanas to life. Writing in an accessible, conversational tone, he outlines how practitioners and yoga teachers alike can utilize a deeper understanding of their anatomy and its movement and function to deepen their yoga practice, increase confidence, prevent injury, and better understand their students and their challenges. Providing detailed images and photos overlaid with anatomical diagrams, allowing you to see clearly what is happening within each asana discussed, Keil shows how the muscles, joints, tendons, and structure of the body work together to support integrated movement. He discusses the basics of functional anatomy, exploring the workings of the foot and ankle, the knee, the hip joint, the pelvis and SI joint, the spine, the shoulder, and the hand, wrist, and elbow. He examines anatomical patterns and body mechanics in specific asanas, such as forward bends, twists, external hip rotations, arm balances, and back bends, such as, for example, how a wide-legged forward bend shifts the position of the femur and the pelvis, allowing students with tight hamstrings to accomplish a deep forward bend-- something they struggle with when the legs are together. Keil also shows how various yoga postures interrelate from the perspective of functional anatomy. Revealing in

detail how everything in the body is connected and how your anatomy functions holistically during yoga practice, this book helps you to understand the body better and connect and integrate yoga postures in a completely new way.

Functional Programming in Scala Paul Chiusano,Runar Bjarnason,2014-09-01 Summary Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding. The book guides readers from basic techniques to advanced topics in a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Functional programming (FP) is a style of software development emphasizing functions that don't depend on program state. Functional code is easier to test and reuse, simpler to parallelize, and less prone to bugs than other code. Scala is an emerging JVM language that offers strong support for FP. Its familiar syntax and transparent interoperability with Java make Scala a great place to start learning FP. About the Book Functional Programming in Scala is a serious tutorial for programmers looking to learn FP and apply it to their everyday work. The book guides readers from basic techniques to advanced topics in a logical, concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. This book assumes no prior experience with functional programming. Some prior exposure to Scala or Java is helpful. What's Inside Functional programming concepts The whys and hows of FP How to write multicore programs Exercises and checks for understanding About the Authors Paul Chiusano and Rúnar Bjarnason are recognized experts in functional programming with Scala and are core contributors to the Scalaz library. Table of Contents PART 1 INTRODUCTION TO FUNCTIONAL PROGRAMMING What is functional programming? Getting started with functional programming in Scala Functional data structures Handling errors without exceptions Strictness and laziness Purely functional state PART 2 FUNCTIONAL DESIGN AND COMBINATOR LIBRARIES Purely functional parallelism Property-based testing Parser combinators PART 3 COMMON STRUCTURES IN FUNCTIONAL DESIGN Monoids Monads Applicative and traversable functors PART 4 EFFECTS AND I/O External effects and I/O Local effects and mutable state Stream processing and incremental I/O

Scanning Probe Microscopy: Characterization, Nanofabrication and Device Application of Functional Materials Paula Maria Vilarinho,Yossi Rosenwaks,Angus Kingon, S+Functional Data Analysis Douglas B. Clarkson,James Ramsay,2005

Functional Analysis Albert Wilansky,1964

Functional Analysis R.E. Edwards,2012-10-25 The book contains an enormous amount of information — mathematical, bibliographical and historical — interwoven with some outstanding heuristic discussions. — Mathematical Reviews. In this massive graduate-level study, Emeritus Professor Edwards (Australian National University, Canberra) presents a balanced account of both the abstract theory and the applications of linear functional analysis. Written for readers with a basic knowledge of set theory, general topology, and vector spaces, the book includes an abundance of carefully chosen illustrative examples and excellent exercises at the end of each chapter. Beginning with a chapter of preliminaries on set theory and topology, Dr. Edwards then presents detailed, in-depth discussions of vector spaces and topological vector spaces, the Hahn-Banach theorem (including applications to potential theory, approximation theory, game theory, and other fields) and fixed-point theorems. Subsequent chapters focus on topological duals of certain spaces: radon measures, distribution and linear partial differential equations, open mapping and closed graph theorems, boundedness principles, duality theory, the theory of compact operators and the Krein-Milman theorem and its applications to commutative harmonic analysis. Clearly and concisely written, Dr. Edwards's book offers rewarding reading to mathematicians and physicists with an interest in the important field of functional analysis. Because of the broad scope of its coverage, this volume will be especially valuable to the reader with a basic knowledge of functional analysis who wishes to learn about parts of the subject other than his own specialties. A comprehensive 32-page bibliography supplies a rich source of references to the basic literature.

Functional Training and Beyond Adam Sinicki,2021-01-19 Train Like a Superhero I recommend this book to all personal trainers, training geeks, and people who just want to learn about different training methods and philosophies." —JC Santana, author of Functional Training #1 Best Seller in Physical Education and Coaching Body and Brain Training Designed to Unlock Your Amazing Hidden Potential Change your life. Many of us have forgotten how to move correctly. We live with muscular imbalances, constant pain, and low energy. Adam Sinicki is on a mission to change this. He is best known for his YouTube channel "The Bioneer", where he provides expertise on functional training, brain training, productivity, flow states, and more. Be better than just functional. Currently, functional training is exercise as rehabilitation. It aims to restore normal, healthy strength and mobility using compound and multi-faceted movements. In Functional Training and Beyond, Adam reveals how to become "better than just functional." We can improve our physical performance and our mental state. We can train to move better, think more clearly, feel energetic, and live more efficiently. Advanced way to train. Until now working out has had one of two goals—get bigger or get leaner. But why are those the only goals? What if there was a third, practical, healthy and exciting way to train our body and our mind? Learn how we can train our brains just like our bodies, and how to incorporate this into a comprehensive, well-rounded program. Discover: New ways to train body and mind Training for greater mobility, less pain, improved mood, and increased energy The fun of training with kettlebells, calisthenics, clubbells, street workouts, animal moves, handstands, rope climbs, isometrics, and more Fans of Overcoming Gravity, You Are Your Own Gym, The World's Fittest Book, New Functional Training for Sports, or Calisthenics for Beginners—discover a new and better way to train both your body and mind in Functional Training and Beyond!

Applied Functional Analysis Eberhard Zeidler,1995-08-30 The second part of an elementary textbook which combines linear functional analysis, nonlinear functional analysis, and their substantial applications. The book addresses undergraduates and beginning graduates of mathematics, physics, and engineering who want to learn how functional analysis elegantly solves mathematical problems which relate to our real world and which play an important role in the history of mathematics. The books approach is to attempt to determine the most important applications. These concern integral equations, differential equations, bifurcation theory, the moment problem, Cebysev approximation, the optimal control of rockets, game theory, symmetries and conservation laws, the quark model, and gauge theory in elementary particle physics. The presentation is self-contained and requires only that readers be familiar with some basic facts of calculus.

Applied Algebra and Functional Analysis Anthony N. Michel,Charles J. Herget,1993-01-01 A valuable reference. — American Scientist. Excellent graduate-level treatment of set theory, algebra and analysis for applications in engineering and science. Fundamentals, algebraic structures, vector spaces and linear transformations, metric spaces, normed spaces and inner product spaces, linear operators, more. A generous number of exercises have been integrated into the text. 1981 edition.

Functional Analysis P. K. Jain,Khalil Ahmad,Om P. Ahuja,1995 The Book Is Intended To Serve As A Textbook For An Introductory Course In Functional Analysis For The Senior Undergraduate And Graduate Students. It Can Also Be Useful For The Senior Students Of Applied Mathematics, Statistics, Operations Research, Engineering And Theoretical Physics. The Text Starts With A Chapter On Preliminaries Discussing Basic Concepts And Results Which Would Be Taken For Granted Later In The Book. This Is Followed By Chapters On Normed And Banach Spaces, Bounded Linear Operators, Bounded Linear Functionals. The Concept And Specific Geometry Of Hilbert Spaces, Functionals And Operators On Hilbert Spaces And Introduction To Spectral Theory. An Appendix Has Been Given On Schauder Bases.The Salient Features Of The Book Are: * Presentation Of The Subject In A Natural Way * Description Of The Concepts With Justification * Clear And Precise Exposition Avoiding Pendantry * Various Examples And

Counter Examples * Graded Problems Throughout Each ChapterNotes And Remarks Within The Text Enhances The Utility Of The Book For The Students.

FUNCTIONAL ANALYSIS NAIR, M. THAMBAN,2021-01-01 Intended as an introductory text on Functional Analysis for the postgraduate students of Mathematics, this compact and well-organized book covers all the topics considered essential to the subject. In so doing, it provides a very good understanding of the subject to the reader. The book begins with a review of linear algebra, and then it goes on to give the basic notion of a norm on linear space (proving thereby most of the basic results), progresses gradually, dealing with operators, and proves some of the basic theorems of Functional Analysis. Besides, the book analyzes more advanced topics like dual space considerations, compact operators, and spectral theory of Banach and Hilbert space operators. The text is so organized that it strives, particularly in the last chapter, to apply and relate the basic theorems to problems which arise while solving operator equations. The present edition is a thoroughly revised version of its first edition, which also includes a section on Hahn-Banach extension theorem for operators and discussions on Lax-Milgram theorem. This student-friendly text, with its clear exposition of concepts, should prove to be a boon to the beginner aspiring to have an insight into Functional Analysis. KEY FEATURES • Plenty of examples have been worked out in detail, which not only illustrate a particular result, but also point towards its limitations so that subsequent stronger results follow. • Exercises, which are designed to aid understanding and to promote mastery of the subject, are interspersed throughout the text. TARGET AUDIENCE • M.Sc. Mathematics

Integration – A Functional Approach Klaus Bichteler,1998-05-19 This book covers Lebesgue integration and its generalizations from Daniell's point of view, modified by the use of seminorms. Integrating functions rather than measuring sets is posited as the main purpose of measure theory. From this point of view Lebesgue's integral can be had as a rather straightforward, even simplistic, extension of Riemann's integral; and its aims, definitions, and procedures can be motivated at an elementary level. The notion of measurability, for example, is suggested by Littlewood's observations rather than being conveyed authoritatively through definitions of (sigma)-algebras and good-cut-conditions, the latter of which are hard to justify and thus appear mysterious, even nettlesome, to the beginner. The approach taken provides the additional benefit of cutting the labor in half. The use of seminorms, ubiquitous in modern analysis, speeds things up even further. The book is intended for the reader who has some experience with proofs, a beginning graduate student for example. It might even be useful to the advanced mathematician who is confronted with situations – such as stochastic integration – where the set-measuring approach to integration does not work.

Plant Functional Diversity Eric Garnier,Marie-Laure Navas,Karl Grigulis,2015-12-10 Biological diversity, the variety of living organisms on Earth, is traditionally viewed as the diversity of taxa, and species in particular. However, other facets of diversity also need to be considered for a comprehensive understanding of evolutionary and ecological processes. This novel book demonstrates the advantages of adopting a functional approach to diversity in order to improve our understanding of the functioning of ecological systems and their components. The focus is on plants, which are major components of these systems, and for which the functional approach has led to major scientific advances over the last 20 years. Plant Functional Diversity presents the rationale for a trait-based approach to functional diversity in the context of comparative plant ecology and agroecology. It demonstrates how this approach can be used to address a number of highly debated questions in plant ecology pertaining to plant responses to their environment, controls on plant community structure, ecosystem properties, and the services these deliver to human societies. This research level text will be of particular relevance and use to graduate students and professional researchers in plant ecology, agricultural sciences and conservation biology.

Functional Cross Training Brett Stewart,Jason Warner,2014-03-11 UPGRADE YOUR WORKOUT Combining plyometrics, intense circuit training, weight lifting and bodyweight exercises, this book's revolutionary programs guarantee to help you achieve a fit, toned body and peak overall fitness. The step-by-step workouts produce astounding results: •Dramatically increased power •Incredible endurance •Packed-on lean muscle •Reduced body fat Whether your goal is to drop extra weight, shave minutes off a race time or finally get ripped abs, this book is the workout partner that will push you to your full potential.

Functional Performance in Older Adults Bette R Bonder,Vanina Dal Bello-Haas,2017-12-04 Support the very best health, well-being, and quality of life for older adults! Here's the ideal resource for rehabilitation professionals who are working with or preparing to work with older adults! You'll find descriptions of the normal aging process, discussions of how health and social factors can impede your clients' ability to participate in regular activities, and step-by-step guidance on how to develop strategies for maximizing their well-being.

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