

The Standard Model A Primer

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Introduction to Effective Field Theory
Primer on Radiation Oncology Physics
R Primer
Field Theory
A Semantic Web Primer

A Primer of Multivariate Statistics

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Since its conception in the 1960s, string theory has been hailed as one of the most promising routes we have to unify quantum mechanics and general relativity. This book provides a concise introduction to string theory explaining central concepts, mathematical tools and covering recent developments in physics including compactifications and gauge/string dualities. With string theory being a multidisciplinary field interfacing with high energy physics, mathematics and quantum field theory, this book is ideal for both students with no previous knowledge of the field and scholars from other disciplines who are looking for an introduction to basic concepts.

An Elementary Primer for Gauge Theory

Drawing upon more than 30 years of experience in working with statistics, Dr. Richard J. Harris has updated A Primer of Multivariate Statistics to provide a model of balance between how-to and why. This classic text covers multivariate techniques with a taste of latent variable approaches. Throughout the book there is a focus on the importance of describing and testing one's interpretations of the emergent variables that are produced by multivariate analysis. This edition retains its conversational writing style while focusing on classical techniques. The book gives the reader a feel for why one should consider diving into more detailed treatments of computer-modeling and latent-variable techniques, such as non-recursive path analysis, confirmatory factor analysis, and hierarchical linear

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modeling. Throughout the book there is a focus on the importance of describing and testing one's interpretations of the emergent variables that are produced by multivariate analysis.

Phylogenomics

This book provides an introduction to Quantum Field Theory (QFT) at an elementary level—with only special relativity, electromagnetism and quantum mechanics as prerequisites. For this fresh approach to teaching QFT, based on numerous lectures and courses given by the authors, a representative sample of topics has been selected containing some of the more innovative, challenging or subtle concepts. They are presented with a minimum of technical details, the discussion of the main ideas being more important than the presentation of the typically very technical mathematical details necessary to obtain the final results. Special attention is given to the realization of symmetries in particle physics: global and local symmetries, explicit, spontaneously broken, and anomalous continuous symmetries, as well as discrete symmetries. Beyond providing an overview of the standard model of the strong, weak and electromagnetic interactions and the current understanding of the origin of mass, the text enumerates the general features of renormalization theory as well as providing a cursory description of effective field theories and the problem of naturalness in physics. Among the more advanced topics the reader will find are an outline of the

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first principles derivation of the CPT theorem and the spin-statistics connection. As indicated by the title, the main aim of this text is to motivate the reader to study QFT by providing a self-contained and approachable introduction to the most exciting and challenging aspects of this successful theoretical framework.

The Standard Model

This book is open access under a CC BY 4.0 license. With this graduate-level primer, the principles of the standard model of particle physics receive a particular skillful, personal and enduring exposition by one of the great contributors to the field. In 2013 the late Prof. Altarelli wrote: The discovery of the Higgs boson and the non-observation of new particles or exotic phenomena have made a big step towards completing the experimental confirmation of the standard model of fundamental particle interactions. It is thus a good moment for me to collect, update and improve my graduate lecture notes on quantum chromodynamics and the theory of electroweak interactions, with main focus on collider physics. I hope that these lectures can provide an introduction to the subject for the interested reader, assumed to be already familiar with quantum field theory and some basic facts in elementary particle physics as taught in undergraduate courses. “These lecture notes are a beautiful example of Guido’s unique pedagogical abilities and scientific vision”. From the Foreword by Gian Giudice

The Little SAS Book

The rise of cognitive neuroscience is the most important scientific and intellectual development of the last thirty years. Findings pour forth, and major initiatives for brain research continue. The social sciences have responded to this development slowly--for good reasons. The implications of particular controversial findings, such as the discovery of mirror neurons, have been ambiguous, controversial within neuroscience itself, and difficult to integrate with conventional social science. Yet many of these findings, such as those of experimental neuro-economics, pose very direct challenges to standard social science. At the same time, however, the known facts of social science, for example about linguistic and moral diversity, pose a significant challenge to standard neuroscience approaches, which tend to focus on "universal" aspects of human and animal cognition. A serious encounter between cognitive neuroscience and social science is likely to be challenging, and transformative, for both parties. Although a literature has developed on proposals to integrate neuroscience and social science, these proposals go in divergent directions. None of them has a developed conception of social life. This book surveys these issues, introduces the basic alternative conceptions both of the mental world and the social world, and show how, with sufficient modification, they can be fit together in plausible ways. The book is not a "new theory " of anything, but rather an exploration of the critical issues that relate to the social aspects of cognition which expands the topic from the social neuroscience of immediate

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interpersonal interaction to the whole range of places where social variation interacts with the cognitive. The focus is on the conceptual problems produced by any attempt to take these issues seriously, and also on the new resources and considerations relevant to doing so. But it is also on the need for a revision of social theoretical concepts in order to utilize these resources. The book points to some conclusions, especially about how the process of what was known as socialization needs to be understood in cognitive science friendly terms. But there is no attempt to resolve the underlying issues within cognitive science, which will doubtless persist.

A Quantum Mechanics Primer

This book is devoted to a pedagogical introduction to supergravity from a practical perspective. As a particular feature of the book, the authors provide explicit details, which makes the computations easier to follow for the interested reader. Each chapter has summary tables, which contain the main results and, in addition, we have collected important or additional material in the appendix. In the first part of the book, the $N=1$ supergravity Lagrangian in four spacetime dimensions is derived. Closely following the reference of Wess and Bagger, we use the superspace approach. All steps, from the geometric principles of curved superspace to the field redefinition necessary to obtain a correctly normalised Lagrangian, are carefully analysed. Comparisons with other methods, such as

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conformal supergravity, are also given. In the second part of the book, we address more phenomenological aspects of supergravity such as supersymmetry breaking, no-scale supergravity, super-Higgs mechanism, etc. Finally, the relationship between supergravity and particle physics, and cosmology are analysed.

Bayesian Models

While theoretical particle physics is an extraordinarily fascinating field, the incredibly fast pace at which it moves along, combined with the huge amount of background information necessary to perform cutting edge research, poses a formidable challenge for graduate students. This book represents the first in a series designed to assist students in the process of transitioning from coursework to research in particle physics. Rather than reading literally dozens of physics and mathematics texts, trying to assimilate the countless ideas, translate notations and perspectives, and see how it all fits together to get a holistic understanding, this series provides a detailed overview of the major mathematical and physical ideas in theoretical particle physics. Ultimately the ideas will be presented in a unified, consistent, holistic picture, where each topic is built firmly on what has come before, and all topics are related in a clear and intuitive way. This introductory text on quantum field theory and particle physics provides both a self-contained and complete introduction to not only the necessary physical ideas, but also a complete introduction to the necessary mathematical tools. Assuming minimal

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knowledge of undergraduate physics and mathematics, this book lays both the mathematical and physical groundwork with clear, intuitive explanations and plenty of examples. The book then continues with an exposition of the Standard Model of Particle Physics, the theory that currently seems to explain the universe apart from gravity. Furthermore, this book was written as a primer for the more advanced mathematical and physical ideas to come later in this series.

Cognitive Science and the Social

More than seventy years ago, the world changed forever when American forces exploded the first atomic bomb over the Japanese city of Hiroshima on August 6, 1945, starting a massive firestorm that would kill some 80,000 enemy civilians. Three days later, the US exploded a second bomb over Nagasaki, killing another 40,000. Though the bombs did not end the war, they contributed urgently to the Japanese decision to surrender and demonstrated to the world the vast destructive power of a revolutionary new weapon. "Little Boy" and "Fat Man" originated in March 1943 when a group of young scientists, sequestered on a mesa near Santa Fe, attended a crash course in the new weapons technology. The lecturer was physicist Robert Serber, J. Robert Oppenheimer's protégé, and they learned that their job was to design and build the world's first atomic bombs. Notes on Serber's lecture, nicknamed the "Los Alamos Primer," were mimeographed and passed from hand to hand. They remained classified for decades after the war. Published for the

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first time in 1992, the Primer offers contemporary readers a better understanding of the origins of nuclear weapons. Serber's preface, an informal memoir, vividly conveys the mingled excitement, uncertainty, and intensity felt by the Manhattan Project scientists. Now, 75 years since the bombs shocked the world, an updated foreword by Pulitzer Prize-winning historian Richard Rhodes offers a brief history of the development of nuclear physics up to the day when Serber stood before his blackboard at Los Alamos. A seminal publication on a turning point in human history, The Los Alamos Primer reveals just how much was known and how terrifyingly much was unknown midway through the Manhattan Project. No other seminar anywhere has had greater historical consequences.

The Standard Model

A new edition of the widely used guide to the key ideas, languages, and technologies of the Semantic Web The development of the Semantic Web, with machine-readable content, has the potential to revolutionize the World Wide Web and its uses. A Semantic Web Primer provides an introduction and guide to this continuously evolving field, describing its key ideas, languages, and technologies. Suitable for use as a textbook or for independent study by professionals, it concentrates on undergraduate-level fundamental concepts and techniques that will enable readers to proceed with building applications on their own and includes exercises, project descriptions, and annotated references to relevant online

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materials. The third edition of this widely used text has been thoroughly updated, with significant new material that reflects a rapidly developing field. Treatment of the different languages (OWL2, rules) expands the coverage of RDF and OWL, defining the data model independently of XML and including coverage of N3/Turtle and RDFa. A chapter is devoted to OWL2, the new W3C standard. This edition also features additional coverage of the query language SPARQL, the rule language RIF and the possibility of interaction between rules and ontology languages and applications. The chapter on Semantic Web applications reflects the rapid developments of the past few years. A new chapter offers ideas for term projects. Additional material, including updates on the technological trends and research directions, can be found at <http://www.semanticwebprimer.org>.

The Atheist's Primer

The Black Book of Quantum Chromodynamics is an in-depth introduction to the particle physics of current and future experiments at particle accelerators. The book offers the reader an overview of practically all aspects of the strong interaction necessary to understand and appreciate modern particle phenomenology at the energy frontier. It assumes a working knowledge of quantum field theory at the level of introductory textbooks used for advanced undergraduate or in standard postgraduate lectures. The book expands this knowledge with an intuitive understanding of relevant physical concepts, an

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introduction to modern techniques, and their application to the phenomenology of the strong interaction at the highest energies. Aimed at graduate students and researchers, it also serves as a comprehensive reference for LHC experimenters and theorists. This book offers an exhaustive presentation of the technologies developed and used by practitioners in the field of fixed-order perturbation theory and an overview of results relevant for the ongoing research programme at the LHC. It includes an in-depth description of various analytic resummation techniques, which form the basis for our understanding of the QCD radiation pattern and how strong production processes manifest themselves in data, and a concise discussion of numerical resummation through parton showers, which form the basis of event generators for the simulation of LHC physics, and their matching and merging with fixed-order matrix elements. It also gives a detailed presentation of the physics behind the parton distribution functions, which are a necessary ingredient for every calculation relevant for physics at hadron colliders such as the LHC, and an introduction to non-perturbative aspects of the strong interaction, including inclusive observables such as total and elastic cross sections, and non-trivial effects such as multiple parton interactions and hadronization. The book concludes with a useful overview contextualising data from previous experiments such as the Tevatron and the Run I of the LHC which have shaped our understanding of QCD at hadron colliders.

Primer of Quantum Mechanics

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Phylogenomics: A Primer, Second Edition is for advanced undergraduate and graduate biology students studying molecular biology, comparative biology, evolution, genomics, and biodiversity. This book explains the essential concepts underlying the storage and manipulation of genomics level data, construction of phylogenetic trees, population genetics, natural selection, the tree of life, DNA barcoding, and metagenomics. The inclusion of problem-solving exercises in each chapter provides students with a solid grasp of the important molecular and evolutionary questions facing modern biologists as well as the tools needed to answer them.

Statistics in MATLAB

Newcomers to R are often intimidated by the command-line interface, the vast number of functions and packages, or the processes of importing data and performing a simple statistical analysis. The R Primer provides a collection of concise examples and solutions to R problems frequently encountered by new users of this statistical software. This new edition adds coverage of R Studio and reproducible research.

A Primer on Linear Models

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Over the past 5 years, the concept of big data has matured, data science has grown exponentially, and data architecture has become a standard part of organizational decision-making. Throughout all this change, the basic principles that shape the architecture of data have remained the same. There remains a need for people to take a look at the "bigger picture" and to understand where their data fit into the grand scheme of things. *Data Architecture: A Primer for the Data Scientist, Second Edition* addresses the larger architectural picture of how big data fits within the existing information infrastructure or data warehousing systems. This is an essential topic not only for data scientists, analysts, and managers but also for researchers and engineers who increasingly need to deal with large and complex sets of data. Until data are gathered and can be placed into an existing framework or architecture, they cannot be used to their full potential. Drawing upon years of practical experience and using numerous examples and case studies from across various industries, the authors seek to explain this larger picture into which big data fits, giving data scientists the necessary context for how pieces of the puzzle should fit together. New case studies include expanded coverage of textual management and analytics. New chapters on visualization and big data. Discussion of new visualizations of the end-state architecture.

The Black Book of Quantum Chromodynamics

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A Primer on Linear Models presents a unified, thorough, and rigorous development of the theory behind the statistical methodology of regression and analysis of variance (ANOVA). It seamlessly incorporates these concepts using non-full-rank design matrices and emphasizes the exact, finite sample theory supporting common statistical methods.

The Los Alamos Primer

Bayesian modeling has become an indispensable tool for ecological research because it is uniquely suited to deal with complexity in a statistically coherent way. This textbook provides a comprehensive and accessible introduction to the latest Bayesian methods—in language ecologists can understand. Unlike other books on the subject, this one emphasizes the principles behind the computations, giving ecologists a big-picture understanding of how to implement this powerful statistical approach. Bayesian Models is an essential primer for non-statisticians. It begins with a definition of probability and develops a step-by-step sequence of connected ideas, including basic distribution theory, network diagrams, hierarchical models, Markov chain Monte Carlo, and inference from single and multiple models. This unique book places less emphasis on computer coding, favoring instead a concise presentation of the mathematical statistics needed to understand how and why Bayesian analysis works. It also explains how to write out properly formulated hierarchical Bayesian models and use them in computing, research papers, and

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proposals. This primer enables ecologists to understand the statistical principles behind Bayesian modeling and apply them to research, teaching, policy, and management. Presents the mathematical and statistical foundations of Bayesian modeling in language accessible to non-statisticians Covers basic distribution theory, network diagrams, hierarchical models, Markov chain Monte Carlo, and more Deemphasizes computer coding in favor of basic principles Explains how to write out properly factored statistical expressions representing Bayesian models

3D Math Primer for Graphics and Game Development

First published in 1971, *Rules for Radicals* is Saul Alinsky's impassioned counsel to young radicals on how to effect constructive social change and know “the difference between being a realistic radical and being a rhetorical one.” Written in the midst of radical political developments whose direction Alinsky was one of the first to question, this volume exhibits his style at its best. Like Thomas Paine before him, Alinsky was able to combine, both in his person and his writing, the intensity of political engagement with an absolute insistence on rational political discourse and adherence to the American democratic tradition. From the Trade Paperback edition.

A Kalman Filter Primer

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This 2006 book uses the standard model as a vehicle for introducing quantum field theory.

Rules for Radicals

Gauge theory is now recognized as one of the most revolutionary discoveries in physics since the development of quantum mechanics. This primer explains how and why gauge theory has dramatically changed our view of the fundamental forces of nature. The text is designed for the non-specialist. A new, intuitive approach is used to make the ideas of gauge theory accessible to both scientists and students with only a background in quantum mechanics. Emphasis is placed on the physics rather than the formalism.

The Object Primer

This advanced, accessible textbook on effective field theories uses worked examples to bring this important topic to a wider audience.

Data Architecture: A Primer for the Data Scientist

This updated edition of Collider Physics surveys the major developments in

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theoretical and experimental particle physics and uses numerous illustrations to show how the Standard Model explains the experimental results. Collider Physics offers an introduction to the fundamental particles and their interactions at the level of a lecture course for graduate students, with emphasis on the aspects most closely related to colliders--past, present, and future. It includes expectations for new physics associated with Higgs bosons and supersymmetry. This resourceful book shows how to make practical calculations and serves a dual purpose as a textbook and a handbook for collider physics phenomenology.

The Thin Book of Trust

Written in the same engaging conversational style as the acclaimed first edition, Primer to The Immune Response, 2nd Edition is a fully updated and invaluable resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal. The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief

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notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, Primer to The Immune Response, 2nd Edition contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections. Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations

A Primer on Scientific Programming with Python

TCP/IP Primer Plus

A Primer to the Theory of Critical Phenomena provides scientists in academia and industry, as well as graduate students in physics, chemistry, and geochemistry with the scientific fundamentals of critical phenomena and phase transitions. The book helps readers broaden their understanding of a field that has developed

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tremendously over the last forty years. The book also makes a great resource for graduate level instructors at universities. Provides a thorough and accessible treatment of the fundamentals of critical phenomena Offers an in-depth exposition on renormalization and field theory techniques Includes experimental observations of critical effects Includes live examples illustrating the applications of the theoretical material

Collider Physics within the Standard Model

It is increasingly common for analysts to seek out the opinions of individuals and organizations using attitudinal scales such as degree of satisfaction or importance attached to an issue. Examples include levels of obesity, seriousness of a health condition, attitudes towards service levels, opinions on products, voting intentions, and the degree of clarity of contracts. Ordered choice models provide a relevant methodology for capturing the sources of influence that explain the choice made amongst a set of ordered alternatives. The methods have evolved to a level of sophistication that can allow for heterogeneity in the threshold parameters, in the explanatory variables (through random parameters), and in the decomposition of the residual variance. This book brings together contributions in ordered choice modeling from a number of disciplines, synthesizing developments over the last fifty years, and suggests useful extensions to account for the wide range of sources of influence on choice.

Supergravity Primer, A: From Geometrical Principles To The Final Lagrangian

Gain mastery over the fundamentals of radiation oncology physics! This package gives you over 60 tutorial videos (each 15-20 minutes in length) with a companion text, providing the most complete and effective introduction available. Dr. Ford has tested this approach in formal instruction for years with outstanding results. The text includes extensive problem sets for each chapter. The videos include embedded quizzes and "whiteboard" screen technology to facilitate comprehension. Together, this provides a valuable learning tool both for training purposes and as a refresher for those in practice. Key Features A complete learning package for radiation oncology physics, including a full series of video tutorials with an associated textbook companion website Clearly drawn, simple illustrations throughout the videos and text Embedded quiz feature in the video tutorials for testing comprehension while viewing Each chapter includes problem sets (solutions available to educators)

Introduction to Nuclear Physics

The acclaimed beginner's book on object technology now presents UML 2.0, Agile Modeling, and the latest in object development techniques.

A Primer to the Theory of Critical Phenomena

The Thin Book of® Trust is a small book about a very important subject. A lot has been written about trust: about what it is and what it can do for people, families, companies, communities and countries. Often, good work is being sabotaged by interpersonal conflict, political infighting, paralysis, stagnation, apathy, or cynicism. Almost always, one can trace these problems to a breakdown in trust. It not only kills good work, it also inevitably creates some degree of misery, annoyance, fear, anger, frustration, resentment, and resignation. By contrast, in successful companies where people are innovative, engage in productive conflict and debate about ideas, and have fun working together, one can find strong trusting relationships. Having the trust of those you work with is too important not to be intentional about building and maintaining it. The goal of The Thin Book of® Trust is to give you enough clear and concrete language to understand and address issues of trust at work and includes some sample scripts. You will learn how to build and maintain strong trusting relationships with others, and repair trust when it is broken, by being intentional and consistent in your language and actions. Understanding and consistently demonstrating trustworthy language and behavior will help you earn and keep the trust of the people you work with. The author, Charles Feltman, is a coach with many years of experience working with all kinds of people and organizations. For this reason, he's able to define trust in a way that I hope you will find eminently useful. First he defines trust as choosing to

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risk making something you value vulnerable to another person's actions. He then breaks the concept of trust down into 4 assessments. That means that instead of labeling someone as untrustworthy, you can dig deeper and define which of the 4 assessments you are struggling with. The 4 assessments are: Sincerity Reliability Competence Care This book includes a pull-out card with the 4 distinctions of Trust. You'll find it very useful in stimulating a conversation about Trust. If your training budget doesn't allow for a purchase of the Trust book for everyone, give everyone this card instead

A Primer on String Theory

Symmetry and the Standard Model

Uncertainty quantification may appear daunting for practitioners due to its inherent complexity but can be intriguing and rewarding for anyone with mathematical ambitions and genuine concern for modeling quality. Uncertainty quantification is what remains to be done when too much credibility has been invested in deterministic analyses and unwarranted assumptions. Model calibration describes the inverse operation targeting optimal prediction and refers to inference of best uncertain model estimates from experimental calibration data. The limited

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applicability of most state-of-the-art approaches to many of the large and complex calculations made today makes uncertainty quantification and model calibration major topics open for debate, with rapidly growing interest from both science and technology, addressing subtle questions such as credible predictions of climate heating.

Uncertainty Quantification and Model Calibration

Introductory text examines classical quantum bead on a track: state and representations; operator eigenvalues; harmonic oscillator and bound bead in a symmetric force field; bead in spherical shell. 1992 edition.

Primer to the Immune Response

3D Math Primer for Graphics and Game Development covers fundamental 3D math concepts that are especially useful for computer game developers and programmers. The authors discuss the mathematical theory in detail and then provide the geometric interpretation necessary to make 3D math intuitive. Working C++ classes illustrate how to put the techniques into practice, and exercises at the end of each chapter help reinforce the concepts. This book explains basic concepts such as vectors, coordinate spaces, matrices, transformations, Euler angles,

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homogenous coordinates, geometric primitives, intersection tests, and triangle meshes. It discusses orientation in 3D, including thorough coverage of quaternions and a comparison of the advantages and disadvantages of different representation techniques. The text describes working C++ classes for mathematical and geometric entities and several different matrix classes, each tailored to specific geometric tasks. Also included are complete derivations for all the primitive transformation matrices.

Modeling Ordered Choices

Public policy is a broad and interdisciplinary area of study and research in the field tends to reflect this. Yet for those teaching and studying public policy, the disjointed nature of the field can be confusing and cumbersome. This text provides a consistent and coherent framework for uniting the field of public policy. Authors Kevin B. Smith and Christopher W. Larimer offer an organized and comprehensive overview of the core questions and concepts, major theoretical frameworks, primary methodological approaches, and key controversies and debates in each subfield of policy studies from the policy process and policy analysis to program evaluation and policy implementation. The third edition has been updated throughout to include the latest scholarship and approaches in the field, including new and expanded coverage of behavioral economics, the narrative policy framework, Fourth Generation implementation studies, the policy regime

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approach, field experiments, and the debate of program versus policy implementation studies. Now with an appendix of sample comprehensive exam questions, The Public Policy Theory Primer remains an indispensable text for the systematic study of public policy.

Collider Physics

Presents recent advances of perturbative relativistic field theory in a pedagogical and straightforward way. For graduate students who intend to specialize in high-energy physics.

The Public Policy Theory Primer

This book was first published in 2006. The standard model brings together two theories of particle physics in order to describe the interactions of subatomic particles, except those due to gravity. This book uses the standard model as a vehicle for introducing quantum field theory. In doing this the book also introduces much of the phenomenology on which this model is based. The book uses a modern approach, emphasizing effective field theory techniques, and contains brief discussions of some of the main proposals for going beyond the standard model, such as seesaw neutrino masses, supersymmetry, and grand unification.

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Requiring only a minimum of background material, this book is ideal for graduate students in theoretical and experimental particle physics. It concentrates on getting students to the level of being able to use this theory by doing real calculations with the minimum of formal development, and contains several problems.

An Invitation to Quantum Field Theory

System state estimation in the presence of noise is critical for control systems, signal processing, and many other applications in a variety of fields. Developed decades ago, the Kalman filter remains an important, powerful tool for estimating the variables in a system in the presence of noise. However, when inundated with theory and vast notations, learning just how the Kalman filter works can be a daunting task. With its mathematically rigorous, “no frills” approach to the basic discrete-time Kalman filter, *A Kalman Filter Primer* builds a thorough understanding of the inner workings and basic concepts of Kalman filter recursions from first principles. Instead of the typical Bayesian perspective, the author develops the topic via least-squares and classical matrix methods using the Cholesky decomposition to distill the essence of the Kalman filter and reveal the motivations behind the choice of the initializing state vector. He supplies pseudo-code algorithms for the various recursions, enabling code development to implement the filter in practice. The book thoroughly studies the development of modern

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smoothing algorithms and methods for determining initial states, along with a comprehensive development of the “diffuse” Kalman filter. Using a tiered presentation that builds on simple discussions to more complex and thorough treatments, A Kalman Filter Primer is the perfect introduction to quickly and effectively using the Kalman filter in practice.

Introduction to Effective Field Theory

Arguing that a 'new atheism', driven largely by Darwinian objections to God's existence, has limited debate to a scientific framework, The Atheist's Primer reinstates the importance of philosophy in the debate about God's existence and in so doing recovers the distinguished philosophical tradition of atheism, which Dawkins and others have obscured. Beginning with the Ancient Greeks and culminating with Hume, Michael Palmer provides the philosophical framework on which scientific objections to theism are hung. He explicates and comments on the thinking behind atheism, discussing issues such as evil, morality, miracles, and the motivations for belief. Although delving deeply into epistemological concerns, emphasising the disheartening limitations of man's capacity for knowledge and our materialist dependencies, Palmer concludes on a positive note arguing - alongside Nietzsche, Marx and Freud and many others - that happiness and personal fulfilment are to be found in the very materialism that religious belief rejects. An eloquent abridgment of his previous work, The Atheist's Creed, which was aimed at

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the educational market, The Atheist's Primer is written in fluent and concise prose, making it an accessible introduction for the general reader.

Primer on Radiation Oncology Physics

TCP/IP Primer Plus offers its readers an in-depth examination of one of the core networking technologies in a widely accepted format. It covers BGP in sufficient depth to equip the reader with knowledge they can translate into improved network management, and shows clearly how the standard OSI model is linked to the TCP/IP suite.

R Primer

Fulfilling the need for a practical user's guide, Statistics in MATLAB: A Primer provides an accessible introduction to the latest version of MATLAB and its extensive functionality for statistics. Assuming a basic knowledge of statistics and probability as well as a fundamental understanding of linear algebra concepts, this book:Covers capabilities

Field Theory

A Semantic Web Primer

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through

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Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 “This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python” Joan Horvath, Computing Reviews, March 2015

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