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Think you need a degree in science to contribute to important scientific discoveries? Think again. All around the world, in fields ranging from astronomy to zoology, millions of everyday people are choosing to participate in the scientific process. Working in cooperation with scientists in pursuit of information, innovation, and discovery, these volunteers are following protocols, collecting and reviewing data, and sharing their observations. They are our neighbors, our in-laws, and people in the office down the hall. Their story, along with the story of the social good that can result from citizen science, has largely been untold, until now. Citizen scientists are challenging old notions about who can conduct research, where knowledge can be acquired, and even how solutions to some of our biggest

societal problems might emerge. In telling their story, Cooper will inspire readers to rethink their own assumptions about the role that individuals can play in gaining scientific understanding and putting that understanding to use as stewards of our world. Citizen Science will be a rallying call-to-arms, and will also function as an authoritative resource for those inspired by the featured stories and message. Students must prove all of the theorems in this undergraduate-level text, which features extensive outlines to assist in study and comprehension. Thorough and well-written, the treatment provides sufficient material for a one-year undergraduate course. The logical presentation anticipates students' questions, and complete definitions and expositions of topics relate new concepts to previously discussed subjects. Most of the material focuses on point-set topology with the exception of the last chapter. Topics include sets and functions, infinite sets and transfinite numbers, topological spaces and basic concepts, product spaces, connectivity, and compactness. Additional subjects include separation axioms, complete spaces, and homotopy and the fundamental group. Numerous hints and figures illuminate the text. Dover (2014) republication of the edition originally published by

The Williams & Wilkins Company, Baltimore, 1975. See every Dover book in print at www.doverpublications.com Play Time is a best selling series for teaching the recorder. Written by Margo Fagan, an expert in the field, it is carefully graded and includes real tunes from the start. This stunningly illustrated, project-based course on drawing and painting for the beginner is divided into three sections: drawing, watercolour and oil painting. This is an introductory course on the methods of computing asymptotics of probabilities of rare events: the theory of large deviations. The book combines large deviation theory with basic statistical mechanics, namely Gibbs measures with their variational characterization and the phase transition of the Ising model, in a text intended for a one semester or quarter course. The book begins with a straightforward approach to the key ideas and results of large deviation theory in the context of independent identically distributed random variables. This includes Cramér's theorem, relative entropy, Sanov's theorem, process level large deviations, convex duality, and change of measure arguments. Dependence is introduced through the interactions potentials of equilibrium statistical mechanics. The phase

transition of the Ising model is proved in two different ways: first in the classical way with the Peierls argument, Dobrushin's uniqueness condition, and correlation inequalities and then a second time through the percolation approach. Beyond the large deviations of independent variables and Gibbs measures, later parts of the book treat large deviations of Markov chains, the Gärtner-Ellis theorem, and a large deviation theorem of Baxter and Jain that is then applied to a nonstationary process and a random walk in a dynamical random environment. The book has been used with students from mathematics, statistics, engineering, and the sciences and has been written for a broad audience with advanced technical training. Appendixes review basic material from analysis and probability theory and also prove some of the technical results used in the text.

Philosophy for Everyone begins by explaining what philosophy is before exploring the questions and issues at the foundation of this important subject. Key topics in this new edition and their areas of focus include: Moral philosophy – the nature of our moral judgments and reactions, whether they aim at some objective moral truth, or are mere personal or cultural preferences; and the possibility of moral

responsibility given the sorts of things that cause behavior; Political philosophy – fundamental questions about the nature of states and their relationship to the citizens within those states; Epistemology – what our knowledge of the world and ourselves consists in, and how we come to have it; and whether we should form beliefs by trusting what other people tell us; Philosophy of mind – what it means for something to have a mind, and how minds should be understood and explained; Philosophy of science – foundational conceptual issues in scientific research and practice, such as whether scientific theories are true; and Metaphysics – fundamental questions about the nature of reality, such as whether we have free will, or whether time travel is possible. This book is designed to be used in conjunction with the free ‘Introduction to Philosophy’ MOOC (massive open online course) created by the University of Edinburgh’s Eidyn research centre, and hosted by the Coursera platform (www.coursera.org/course/introphil). This book is also highly recommended for anyone looking for a short overview of this fascinating discipline. The theory of relativity is tackled directly in this book, dispensing with the need to establish the insufficiency of Newtonian mechanics. This book

takes advantage from the start of the geometrical nature of the relativity theory. The reader is assumed to be familiar with vector calculus in ordinary three-dimensional Euclidean space.

Learn the basics of Computer Science and programming by building interactive programs—including simple animations and games—that run in a standard web browser. This book uses the ubiquitous and popular JavaScript programming language (not to be confused with the Java programming language) as a basis for teaching, covering the basics of syntax and idioms sufficient to build simple interactive games. The book hits some highlights of computer science along the way, such as boolean algebra, recursive algorithms, and event-driven programming. All concepts are taught with beginners in mind, including the teacher, making this an excellent choice for homeschoolers: complete explanations are given for every exercise, lab, and test question. If using this book as a high school text, it is designed to have a workload appropriate for a 1-credit, 1-semester course, for students who have completed (or are taking) pre-algebra. In that setting, each chapter should take about a week to get through, with plenty of reading and hands-on learning every week. A midterm is

provided at the end of weeks 5 and 10. Every chapter has a set of exercises to complete, again, with full solutions provided at the end of the book. I hope you enjoy what has been a fun book to write. The concepts taught here are sometimes simple, sometimes a bit mind-bending, and always powerful enablers for anyone who wants to learn to do just a little more with the devices we have all around us. I think it's worth the journey. I hope you do, too. □□□□□□:□□□□□ This accessible book describes all aspects of Quality Management in the Organization. The book is full of tips for practical and efficient testing and realization of quality. It is up to the latest 2010 quality standards. It describes all relevant quality standards and methodologies like CMM, CMMI, Prince2, ITIL, ISO9001, CobiT, TQM etc, and of course the Q-Course. The book addresses a lot of organizational aspects with respect to quality. This book can be used for educational purposes. It is currently used at German Universities of Collaborative Education and the Q-Course Foundation exams are approved by the Saxonian State Ministry for Education. Take the Q-Course, improve quality, improve your organization and save a lot of money!! This is the retail version (Amazon etc). What processes and physical

materials have shaped the planet we live on? Why do earthquakes happen? And what can geology teach us about contemporary issues such as climate change? From volcanoes and glaciers to fossils and rock formations, this user-friendly book gives a structured and thorough overview of the geology of planet Earth and beyond. *Geology: A Complete Introduction* outlines the basics in clear English, and provides added-value features like a glossary of the essential jargon terms, links to useful websites, and examples of questions you might be asked in a seminar or exam. Topics covered include the Earth's structure, earthquakes, plate tectonics, volcanoes, igneous intrusions, metamorphism, weathering, erosion, deposition, deformation, physical resources, past life and fossils, the history of the Earth, Solar System geology, and geological fieldwork. There are useful appendices on minerals, rock names and geological time. Whether you are preparing for an essay, studying for an exam or simply want to enrich your hobby or expand your knowledge, *Geology: A Complete Introduction* is your essential guide. David Rothery is a volcanologist, geologist, planetary scientist and Professor of Planetary Geosciences at the Open University. He has done fieldwork in the UK, USA, Australia,

Oman, Chile and Central America, and visited many other parts of the world. Maisons d'éditions mentionnées: "Artimo, Atopia Projects, Book Works, Factotum, Inventory, JRP/Ringier, Lukas & Sternberg, The Metropolitan Complex, Millimetre, Morning Star, Onestar Press, Pork Salad Press, Revolver, Slought Foundation. Translated from the French, this book is an introduction to first-order model theory. Starting from scratch, it quickly reaches the essentials, namely, the back-and-forth method and compactness, which are illustrated with examples taken from algebra. It also introduces logic via the study of the models of arithmetic, and it gives complete but accessible exposition of stability theory. This book provides a first introduction to the methods of probability theory by using the modern and rigorous techniques of measure theory and functional analysis. It is geared for undergraduate students, mainly in mathematics and physics majors, but also for students from other subject areas such as economics, finance and engineering. It is an invaluable source, either for a parallel use to a related lecture or for its own purpose of learning it. The first part of the book gives a basic introduction to probability theory. It explains the notions of random events and

random variables, probability measures, expectation values, distributions, characteristic functions, independence of random variables, as well as different types of convergence and limit theorems. The first part contains two chapters. The first chapter presents combinatorial aspects of probability theory, and the second chapter delves into the actual introduction to probability theory, which contains the modern probability language. The second part is devoted to some more sophisticated methods such as conditional expectations, martingales and Markov chains. These notions will be fairly accessible after reading the first part. If you've been thinking about digging into programming, Python Crash Course will get you writing real programs fast. Why wait any longer? Start your engines and code! Are you interested in learning more about programming and coding? Do you need a guide that helps you with the basics? This book will help you a lot. There are a lot of benefits that come with the Python coding language, and this is one of the reasons why so many people like to learn how to code with this language compared to other options. First, this coding language was designed with the beginner in mind. There are a lot of coding languages that are hard to learn,

and only more advanced programmers, those who have spent years in this kind of field, can learn how to use them. This book contains: What Is Python And Why Should You Learn It Variables And Operators Learn About Simple Data Types Conditional Statements In Python Working With Functions Object-Oriented Programming Working With Files Python From Scratch How Coding Works Python Libraries Lists, Tuples, and Dictionaries And many more. If you are a beginner who is just getting started with doing data analysis or any kind of Python programming at all, then this large community is going to be one of the best resources for you to use. It will help you to get all of your questions answered and ensures you are going to be able to finish your project, even if you get stuck on it for a bit. Want to know more about this book? Get it now Are you a coach or trainer looking to work more with the body? Do you want to work safely and help your clients make deeper change? Do you know that the body matters for facilitation, but are not sure practically how to develop this aspect of your work? This book will provide you with the theory and real-world tools for excellence in embodied facilitation. It contains over 50 simple exercises for both you and your

clients, and offers a clear pragmatic framework for deepening your experience and developing your skills. Through core techniques such as awareness raising exercises, centring and embodied listening, you will learn how to help clients with a range of common coaching topics such as: □ Leadership □ Confidence □ Finding purpose □ Stress management □ Communication skills

Mark Walsh's straight-talking approach offers a framework for understanding the field, in addition to techniques you can use with clients immediately. From processing trauma to centring yourself in times of stress, it is a no-nonsense resource for any coach, facilitator or teacher wanting to work more through the body. The body is a huge part of who we are, yet it is often ignored. This book will show you how to include it safely, skilfully and powerfully. Mark Walsh is a world leader in embodied facilitation. He founded the Embodied Facilitator Course and Embodied Yoga Principles, hosts The Embodiment Podcast, led the record-breaking Embodiment Conference and manages the business training company Integration Training. He holds a black belt in aikido, an honours degree in psychology, and a 50m swimming badge. He offends pirates with his swearing and impresses dads globally with his

jokes. In Aesop's fable a fox comes across grapes that are so high he cannot reach them, so he walks away muttering that they must be "sour grapes." Likewise, many beginning students find no nourishment in "A Course in Miracles" because they cannot grasp its lofty spiritual principles. The Course presents spiritual principles in a Western framework, yet includes important Eastern influences along with deep psychological insights. Many seekers have transformed their lives through learning the Course and applying its principles. Nevertheless, newcomers won't want to study the three volumes and the 1249 pages of the Course unless they know it will be worth spending the time and effort required.

Furthermore, the beginner invariably needs practical help in actually comprehending the Course. After all, the Course quite literally turns the normal perceptual thinking process upside down by offering surprising and profound answers to the most meaningful questions of life. If you are a beginner, this overview comes to your aid by letting you know in advance that the spiritual principles can be grasped and are as nourishing as sweet grapes, as they weave together to unify and heal the mind. This introduction to the Course helps you by providing clarity and

conciseness, enabling you to make the difficult step-by-step transition to a new way of thinking about the world and about yourself. This overview prepares you for studying and applying the Course, which teaches how to perform "miracles" of changing fearful perceptions into loving perceptions. Your mind can find peace and wholeness through practicing true forgiveness that reminds you of the divine presence within others and within yourself. This brief introductory overview provides an inexpensive and efficient way for you to determine for yourself if the path of forgiveness presented by the Course is right for you to pursue in greater depth. An Introduction to Health and Safety Law provides a clear, concise overview of health and safety law in the United Kingdom. With reference to the European Union, this book discusses criminal and civil liability at length to provide a clear understanding of this area of law which has been subject to change over the 20 years. Key case studies and statistical information on prosecutions, fines and enforcement notices help to contextualise health and safety law to provide students and professionals with a full understanding of health and safety law in the UK. This book includes chapters on: the legal framework criminal liability

enforcement of criminal liability civil liability civil remedy subordinate legislation. This book is an essential reference for students studying towards NEBOSH qualifications and students studying at university level. It provides a comprehensive understanding of UK health and safety law and will be a useful reference when entering the professional field. A comprehensive, must-have guide to beverage service including wine, beer, and spirits The Sommelier Prep Course is the ultimate resource for any aspiring sommelier, bartender, or serious wine lover. It includes sections on viniculture and viticulture, Old World and New World wines, beer and other fermented beverages, and all varieties of spirits. Review questions, key terms, a pronunciation guide, maps, and even sample wine labels provide invaluable test prep information for acing the major sommelier certification exams. For each type of beverage, author Michael Gibson covers the essential history, manufacturing information, varieties available, and tasting and pairing information. He also includes sections on service, storage, and wine list preparation for a full understanding of every aspect of beverage service. An ideal test prep resource for anyone studying for certification by The Court of Master

Sommeliers, The Society of Wine Educators, or The International Sommelier Guild An excellent introduction to wine and beverages for bartenders, beverage enthusiasts, and students Based on education materials developed by the author for his culinary and hospitality students at the Le Cordon Bleu College of Culinary Arts in Scottsdale With concise, accessible information from an expert sommelier, this is the most complete guide available to all the wines, beers, and spirits of the world. The second printing contains a critical discussion of Dirac derivation of canonical quantization, which is instead deduced from general geometric structures. This book arises out of the need for Quantum Mechanics (QM) to be part of the common education of mathematics students. The mathematical structure of QM is formulated in terms of the C^* -algebra of observables, which is argued on the basis of the operational definition of measurements and the duality between states and observables, for a general physical system. The Dirac-von Neumann axioms are then derived. The description of states and observables as Hilbert space vectors and operators follows from the GNS and Gelfand-Naimark Theorems. The experimental existence of complementary

observables for atomic systems is shown to imply the noncommutativity of the observable algebra, the distinctive feature of QM; for finite degrees of freedom, the Weyl algebra codifies the experimental complementarity of position and momentum (Heisenberg commutation relations) and Schrödinger QM follows from the von Neumann uniqueness theorem. The existence problem of the dynamics is related to the self-adjointness of the Hamiltonian and solved by the Kato–Rellich conditions on the potential, which also guarantee quantum stability for classically unbounded-below Hamiltonians. Examples are discussed which include the explanation of the discreteness of the atomic spectra. Because of the increasing interest in the relation between QM and stochastic processes, a final chapter is devoted to the functional integral approach (Feynman–Kac formula), to the formulation in terms of ground state correlations (the quantum mechanical analog of the Wightman functions) and their analytic continuation to imaginary time (Euclidean QM). The quantum particle on a circle is discussed in detail, as an example of the interplay between topology and functional integral, leading to the emergence of superselection rules and θ sectors. Errata(s)

Errata Provides the essential information that health care researchers and health professionals need to understand the basics of qualitative research. Now in its fourth edition, this concise, accessible, and authoritative introduction to conducting and interpreting qualitative research in the health care field has been fully revised and updated. Continuing to introduce the core qualitative methods for data collection and analysis, this new edition also features chapters covering newer methods which are becoming more widely used in the health research field; examining the role of theory, the analysis of virtual and digital data, and advances in participatory approaches to research. *Qualitative Research in Health Care, 4th Edition* looks at the interface between qualitative and quantitative research in primary mixed method studies, case study research, and secondary analysis and evidence synthesis. The book further offers chapters covering: different research designs, ethical issues in qualitative research; interview, focus group and observational methods; and documentary and conversation analysis. A succinct, and practical guide quickly conveying the essentials of qualitative research. Updated with chapters on new and increasingly used

methods of data collection including digital and web research Features new examples and up-to-date references and further reading The fourth edition of *Qualitative Research in Health Care* is relevant to health care professionals, researchers and students in health and related disciplines. Introduces history and basics of human communication, covering the communication process, functions of communication, language and communication, non-verbal communication, interpersonal communication, listening, public speaking, and mass communication. *Introduction to International Legal English* is an intermediate level course for law students or newly-qualified lawyers who need to use English in their legal work or studies. Suitable for classroom use or self-study, the course prepares learners for using English in a commercial law environment. Using authentic legal texts and case studies supplied by TransLegal®, Europe's leading firm of lawyer-linguists, the course develops an understanding of the law and consolidates language skills. Featuring both academic and professional contexts, *Introduction to International Legal English* is an ideal starting point for preparing for the Cambridge ILEC examination. This book summarizes recent advances in causal inference

and underscores the paradigmatic shifts that must be undertaken in moving from traditional statistical analysis to causal analysis of multivariate data. Special emphasis is placed on the assumptions that underlie all causal inferences, the languages used in formulating those assumptions, the conditional nature of all causal and counterfactual claims, and the methods that have been developed for the assessment of such claims. These advances are illustrated using a general theory of causation based on the Structural Causal Model (SCM), which subsumes and unifies other approaches to causation, and provides a coherent mathematical foundation for the analysis of causes and counterfactuals. In particular, the paper surveys the development of mathematical tools for inferring (from a combination of data and assumptions) answers to three types of causal queries: those about (1) the effects of potential interventions, (2) probabilities of counterfactuals, and (3) direct and indirect effects (also known as "mediation"). Finally, the paper defines the formal and conceptual relationships between the structural and potential-outcome frameworks and presents tools for a symbiotic analysis that uses the strong features of both. The tools are

demonstrated in the analyses of mediation, causes of effects, and probabilities of causation. Are you a coach or trainer looking to work more with the body? Do you want to work safely and help your clients make deeper change? Do you know that the body matters for facilitation, but are not sure practically how to develop this aspect of your work? This book will provide you with the theory and real-world tools for excellence in embodied facilitation. It contains over 50 simple exercises for both you and your clients, and offers a clear pragmatic framework for deepening your experience and developing your skills. Through core techniques such as awareness raising exercises, centring and embodied listening, you will learn how to help clients with a range of common coaching topics such as: - Leadership - Confidence - Finding purpose - Stress management - Communication skills Mark Walsh's straight-talking approach offers a framework for understanding the field, in addition to techniques you can use with clients immediately. From processing trauma to centring yourself in times of stress, it is a no-nonsense resource for any coach, facilitator or teacher wanting to work more through the body. The body is a huge part of who we are, yet it is often

ignored. This book will show you how to include it safely, skilfully and powerfully. Mark Walsh is a world leader in embodied facilitation. He founded the Embodied Facilitator Course and Embodied Yoga Principles, hosts The Embodiment Podcast, led the record-breaking Embodiment Conference and manages the business training company Integration Training. He holds a black belt in aikido, an honours degree in psychology, and a 50m swimming badge. He offends pirates with his swearing and impresses dads globally with his jokes. This textbook is for the IDMA 201 course in the IDMA Associate Insurance Data Manager (AIDM) designation program. This course defines data management, describes the functions of data managers, provides the business case for data management and introduces the student to concepts and tools used by data managers.

Whether you are an actuary, a claims professional, business analyst, or almost any of the other key functions, knowledge of data management can help you do your job better and help you prepare, understand, and protect the raw material--the data--so critical to your organization. IDMA courses, workshops, and forums are highly recommended for a broad audience including new hires, IT and data

modeling professionals who want to broaden their knowledge of the business side of insurance data management, anyone who manages and governs data in the industry (statistical, or management information data), and anyone who needs to use or communicate good quality data/information - from actuaries to underwriters, and claims and analytics professionals. Students who complete the four IDMA-developed courses and successfully pass the examinations are awarded an Associate Insurance Data Manager (AIDM) designation. The IDMA courses may be taken in any order; there are no prerequisites. However, the courses are numbered to indicate a recommended sequence. For details on the designation requirements, please refer to the IDMA Website at www.IDMA.org.

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