

A Journey Springer

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A Journey Springer

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BAKER ASHLEY

Climate, Planetary and Evolutionary Sciences Springer Nature

This primer brilliantly exposes concepts related to special and general relativity for the absolute beginner. It can be used either as an introduction to the subject at a high school level or as a useful compass for undergraduates who want to move the first steps towards Einstein's theories. The book is enhanced throughout with many useful exercises and beautiful illustrations to aid understanding. The topics covered include: Lorentz transformations, length contraction and time dilation, the twin paradox (and other paradoxes), Minkowski spacetime, the Einstein equivalence principle, curvature of space and spacetime, geodesics, parallel transport,

Einstein's equations of general relativity, black holes, wormholes, cosmology, gravitational waves, time machines, and much more.

A Journey in Mathematics Education Research Springer Science & Business Media

This book provides readers with a solid set of diversified and essential tools for the theoretical modeling and control of complex robotic systems, as well as for digital human modeling and realistic motion generation. Following a comprehensive introduction to the fundamentals of robotic kinematics, dynamics and control systems design, the author extends robotic modeling procedures and motion algorithms to a much higher-dimensional, larger scale and more sophisticated research area, namely digital human modeling. Most of the methods are illustrated by MATLABM

codes and sample graphical visualizations, offering a unique closed loop between conceptual understanding and visualization. Readers are guided through practicing and creating 3D graphics for robot arms as well as digital human models in MATLABM, and through driving them for real-time animation. This work is intended to serve as a robotics textbook with an extension to digital human modeling for senior undergraduate and graduate engineering students. At the same time, it represents a comprehensive reference guide for all researchers, scientists and professionals eager to learn the fundamentals of robotic systems as well as the basic methods of digital human modeling and motion generation.

From Finite Groups to Quivers via Algebras Springer Nature

This book opens with an axiomatic description of Euclidean and non-Euclidean

geometries. Euclidean geometry is the starting point to understand all other geometries and it is the cornerstone for our basic intuition of vector spaces. The generalization to non-Euclidean geometry is the following step to develop the language of Special and General Relativity. These theories are discussed starting from a full geometric point of view. Differential geometry is presented in the simplest way and it is applied to describe the physical world. The final result of this construction is deriving the Einstein field equations for gravitation and spacetime dynamics. Possible solutions, and their physical implications are also discussed: the Schwarzschild metric, the relativistic trajectory of planets, the deflection of light, the black holes, the cosmological solutions like de Sitter, Friedmann-Lemaître-Robertson-Walker, and Gödel ones. Some current problems like dark energy are also sketched. The book is self-contained and includes details of all proofs. It provides solutions or tips to solve problems and exercises. It is designed for undergraduate students and for all readers who want a first geometric approach to Special and General Relativity.

A Practical Guide for a Successful Journey Springer

"Modern physics is rife with provocative and fascinating ideas, from quantum mechanics to the multiverse. But as interesting as these concepts are, they are also easy to understand. This book, written with deft hands by true experts in the field, helps to illuminate some of the most important and game-changing ideas in physics today." Sean M. Carroll "The Multiversal book series is equally unique, providing book-length extensions of the lectures with enough additional depth for those who truly want to explore these fields, while also providing the kind of clarity that is appropriate for interested lay people to grasp the general principles involved." Lawrence M. Krauss This book explores, explains and debunks some common misconceptions about quantum physics, particle physics, space-time, and Multiverse cosmology. It seeks to separate science from pseudoscience. The material is presented in layperson-friendly language, followed by additional technical sections which explain basic equations and principles. This feature is very attractive to non-expert readers who nevertheless seek a deeper understanding of the theories, and wish to explore beyond just the basic description. Multiversal Journeys™ is a trademark of Farzad Nekoogar and Multiversal Journeys, a 501 (c) (3) nonprofit organization.

Springer's Journey Springer Science & Business Media

Our objective is to publish a book that lays out the theoretical constructs and research methodologies within mathematics education that have been developed by Paul Cobb and explains the process of their development. We propose to do so by including papers in which Cobb introduced new theoretical perspectives and methodologies into the literature, each preceded by a substantive accompanying introductory paper that explains the motivation/rationale for developing the new perspectives and/or methodologies and the processes through which they were developed, and Cobb's own retrospective comments. In this way the book provides the reader with heretofore unpublished material that lays out in considerable detail the issues and problems that Cobb has confronted in his work, that, from his viewpoint, required theoretical and methodological shifts/advances and provides insight into how he has achieved the shifts/advances. The result will be a volume that, in addition to explaining Cobb's contributions to the field of mathematics education, also provides the reader with insight into what is involved in developing an aggressive and evolving research program. When Cobb confronts problems and issues in his work that cannot be addressed using his existing theories and frameworks, he looks to other fields for theoretical inspiration. A critical feature of Cobb's work is that in doing so, he consciously appropriates and adapts ideas from these other fields to the purpose of supporting processes of learning and teaching mathematics; He does not simply accept the goals or motives of those fields. As a result, Cobb reconceptualizes and reframes issues and concepts so that they result in new ways of investigating, exploring, and explaining phenomena that he encounters in the practical dimensions of his work, which include working in classrooms, with teachers, and with school systems. The effect is that the field of mathematics education is altered. Other researchers have found his "new ways of looking" useful to them. And they, in turn, adapt these ideas for their own use. The complexity of many of the ideas that Cobb has introduced into the field of mathematics education can lead to a multiplicity of interpretations by practitioners and by other researchers, based on their own experiential backgrounds. Therefore, by detailing the development of Cobb's work, including the tensions involved in coming to grips with and reconciling apparently contrasting

perspectives, the book will shed additional light on the processes of reconceptualization and thus help the reader to understand the reasons, mechanisms, and outcomes of researchers' constant pursuit of new insights.

A Step-by-Step Guide for Reversing Insomnia Springer

This book presents a series of high performance product design (PD) and development best practices that can create or improve product development organization. In contrast to other books that focus only on Toyota or other individual companies applying lean IPD, this book explains the lean philosophy more broadly and includes discussions of systems engineering, design for X (DFX), agile development, integrated product development, and project management. The "Lean Journey" proposed here takes a value-centric approach, where the lean principles are applied to PD to allow the tools and methods selected to emerge from observation of the individual characteristics of each enterprise. This means that understanding lean product development (LPD) is not about knowing which tools are available but knowing how to apply the philosophy. The book comes with an accompanying manual with problems and solutions available on Springer Extras.

Quantum Physics, Mini Black Holes, and the Multiverse Springer Nature

The book outlines a pathway to the development of fusion of electromagnetic resonance and artificial intelligence which will dominate the world of communication engineering. Electromagnetic resonance is fundamental to all biomaterials. The authors explore the peculiarities of this typical resonance behaviour in the literatures and provide the key points where the research should direct. Biological antennas are inspiring designing of several electromagnetic devices. From biomimetic engineering to humanoid bots a revolution is undergoing. Authors include entire development in the form of a book along with their contribution to this field. *The Journey to Inclusion* Springer Science & Business Media

This collection of high-quality articles in the field of combinatorics, geometry, algebraic topology and theoretical computer science is a tribute to Jiří Matoušek, who passed away prematurely in March 2015. It is a collaborative effort by his colleagues and friends, who have paid particular attention to clarity of exposition – something Jirka would have approved of. The original research articles, surveys and expository articles, written by

leading experts in their respective fields, map Jiří Matoušek's numerous areas of mathematical interest.

Misconceptions Springer Nature

"A heart-warming and true story about an orphaned orca named Springer who was found swimming alone in the Puget Sound in 2002. The book takes us on Springer's journey from being near starvation to rescued to then the challenges of her release, eventual adoption, and the start of her own family."--

A Brief Journey in Discrete Mathematics Springer Nature

This book is a collection of fourteen essays that describe an inspiring journey through the universe and discusses popular science topics that modern physics and cosmology are struggling to deal with. What is our place in the universe and what happens in the magnificent cosmos where we exist for a brief amount of time. In an unique way that incorporates mythological and philosophical perspectives, the essays in this work address the big questions of what the universe is, how it came into being, and where it may be heading. This exciting adventure is a rich scientific history of elegant physics, mathematics, and cosmology as well as a philosophical and spiritual pursuit fueled by the human imagination.

Biological Antenna to the Humanoid Bot Springer Nature

This open access book not only describes the challenges of climate disruption, but also presents solutions. The challenges described include air pollution, climate change, extreme weather, and related health impacts that range from heat stress, vector-borne diseases, food and water insecurity and chronic diseases to malnutrition and mental well-being. The influence of humans on climate change has been established through extensive published evidence and reports. However, the connections between climate change, the health of the planet and the impact on human health have not received the same level of attention. Therefore, the global focus on the public health impacts of climate change is a relatively recent area of interest. This focus is timely since scientists have concluded that changes in climate have led to new weather extremes such as floods, storms, heat waves, droughts and fires, in turn leading to more than 600,000 deaths and the displacement of nearly 4 billion people in the last 20 years. Previous work on the health impacts of climate change was limited mostly to epidemiologic approaches and outcomes and focused less on multidisciplinary, multi-faceted collaborations between physical scientists,

public health researchers and policy makers. Further, there was little attention paid to faith-based and ethical approaches to the problem. The solutions and actions we explore in this book engage diverse sectors of civil society, faith leadership, and political leadership, all oriented by ethics, advocacy, and policy with a special focus on poor and vulnerable populations. The book highlights areas we think will resonate broadly with the public, faith leaders, researchers and students across disciplines including the humanities, and policy makers.

Creative Episodes in Its History Springer Science & Business Media

A touching children's book about an orca whale who's mother was killed and his journey back to his pod. Based on a true story in the Puget Sound

Meditations on Killing and Eating Springer

This book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory. The journey starts with the basic idea that new number systems arise from solving different equations, leading to (abstract) algebra. Along this journey, the reader will be exposed to important ideas of mathematics, and will learn a little about how mathematics is really done. Starting at an elementary level, the book gradually eases the reader into the complexities of higher mathematics; in particular, the formal structure of mathematical writing (definitions, theorems and proofs) is introduced in simple terms. The book covers a range of topics, from the very foundations (numbers, set theory) to basic abstract algebra (groups, rings, fields), driven throughout by the need to understand concrete equations and problems, such as determining which numbers are sums of squares. Some topics usually reserved for a more advanced audience, such as Eisenstein integers or quadratic reciprocity, are lucidly presented in an accessible way. The book also introduces the reader to open source software for computations, to enhance understanding of the material and nurture basic programming skills. For the more adventurous, a number of Outlooks included in the text offer a glimpse of possible mathematical excursions. This book supports readers in transition from high school to university mathematics, and will also benefit university students keen to explore the beginnings of algebraic number theory. It can be read either on its own or as a supporting text for first courses in algebra or number theory, and can also be used for a topics

course on Diophantine equations.

A Practical View Springer

Drawing on years of investigative reporting, Wyatt Williams offers a powerful look at why we kill and eat animals. In order to understand why we eat meat, the restaurant critic and journalist investigated factory farms, learned to hunt game, worked on a slaughterhouse kill floor, and partook in Indigenous traditions of whale eating in Alaska. In Springer Mountain, he tells about his experiences while charting the history of meat eating and vegetarianism. Williams shows how mysteries springing up from everyday experiences can lead us into the big questions of life while examining the irreconcilable differences between humans and animals. Springer Mountain is a thought-provoking work, one that reveals how what we eat tells us who we are.

A Physicist Explores the Culture, History and Personalities of Science Springer

This book describes a researcher's journey to carry out an ethnographic study. It serves as a tool to spread the use of ethnographic research, and to clarify the difficulties, challenges, solutions, and advantages ethnographic researchers encounter. The book describes how the various stops along the way allowed investigation of the research area from a variety of viewpoints, in order to fulfil diverse roles, and to present the research findings in a range of voices: the voice of the teacher educator, the voice of the faculty member, the voice of the ethnographic researcher, and the voice of the student. These viewpoints allowed for natural movement between the data that were gathered and the research information that was furnished. Using the voice of each role to present the issue allows one to examine it from a unique perspective and to get a broad and deep picture of the research population, process and results. Such a multi-dimensional perspective enables the presentation of a whole; emphasizing experiences, perceptions, values, world views, rules and regulations, culture and life style, interpersonal and intrapersonal relations.

The Spirit of Springer Springer

The CBT-I Program That Gets You Sleeping! Now in its second edition, Sink Into Sleep provides the tools and techniques to reverse insomnia and improve sleep long-term. Insomnia, persistent trouble getting to sleep or staying asleep, affects our daytime functioning and wellbeing. This book breaks down the principles of cognitive behavioral therapy for insomnia (CBT-I), the sleep program considered first-line

treatment in the clinic, into a step-by-step and reader friendly program that can be easily followed at home. Written by a clinical psychologist and researcher who has worked in the sleep field for 40 years, the book uses data from a real patient to illustrate each step of the process. The book is complete with detailed sleep diaries, worksheets, and more, all of which are also available online to download and use on your own journey to sleeping better now and into the future. Guiding readers through this self-directed sleep therapy program, Sink Into Sleep features updated information and new scientific findings on key topics for patients and health care providers including: Tried-and-true CBT-I methods of sleep management Successful cognitive therapy methods to deal with racing thoughts at bedtime Different sleep needs for women and men through life and health conditions Influence of nutrition, exercise, and sex on sleep in a brand-new chapter Depression, anxiety, and traumatic stress and how they intersect with sleep Prescribed and non-prescribed medications, herbal remedies, and cannabis for sleep

[Springer Mountain](#) Springer Nature

In physics, the idea of extra spatial dimensions originates from Nordstöm's 5-dimensional vector theory in 1914, followed by Kaluza-Klein theory in 1921, in an effort to unify general relativity and electromagnetism in a 5 dimensional space-time (4 dimensions for space and 1 for time). Kaluza-Klein theory didn't generate enough interest with physicist for the next five decades, due to its problems with inconsistencies. With the advent of supergravity theory (the theory that unifies general relativity and supersymmetry theories) in late 1970's and eventually, string theories (1980s) and M-theory (1990s), the dimensions of space-time increased to 11 (10-space and 1-time dimension). There are two main features in this book that differentiates it from other books written about extra dimensions: The first feature is the coverage of extra dimensions in time (Two Time physics), which has not been covered in earlier books about extra dimensions. All other books mainly cover extra spatial dimensions. The second feature deals with level of presentation. The material is presented in a non-technical language followed by additional sections (in the form of appendices or footnotes) that explain the basic equations and formulas in the theories. This feature is very attractive to readers who want to find out more about the theories involved beyond the basic description for a layperson. The text is designed for scientifically literate

non-specialists who want to know the latest discoveries in theoretical physics in a non-technical language. Readers with basic undergraduate background in modern physics and quantum mechanics can easily understand the technical sections. Part I starts with an overview of the Standard Model of particles and forces, notions of Einstein's special and general relativity, and the overall view of the universe from the Big Bang to the present epoch, and covers Two-Time physics. 2T-physics has worked correctly at all scales of physics, both macroscopic and microscopic, for which there is experimental data so far. In addition to revealing hidden information even in familiar "everyday" physics, it also makes testable predictions in lesser known physics regimes that could be analyzed at the energy scales of the Large Hadron Collider at CERN or in cosmological observations." Part II of the book is focused on extra dimensions of space. It covers the following topics: The Popular View of Extra Dimensions, Einstein and the Fourth Dimension, Traditional Extra Dimensions, Einstein's Gravity, The Theory Formerly Known as String, Warped Extra Dimensions, and How Do We Look For Extra Dimensions?

Journey through Mathematics Relativity: A Journey Through Warped Space and Time This book offers insight on the politics of inclusion in Vietnam through a Foucauldian and post-colonial perspective on disability and education. Drawing on a socio-historical analysis of the inclusion of disabled people in Vietnam in the twenty-first century, the book guides readers through a 'history of the present.' By reflecting on the treatment of disabled people in Vietnamese social history, the book argues that this journey to inclusion calls for critical reflections on the challenges and possibilities for policies to transform exclusion for disabled people. The book unveils the problematics of social and educational institutions in governing disability and difference through a critical reflection on discourses and power in the global and local juncture, in relation to its engagement with disability in the global South. The intersection between the global politics of disability rights and development and the local politics of inclusion in Vietnam shapes the cultural politics of education. The ways inclusive education is historically constructed, within this socio-historical condition, reflects the challenges of inclusive thought and action for transforming injustice. Going beyond 'deconstructive politics,' The Journey to Inclusion argues for a re-positioning of the

relationships between the global North and South as an alternative approach to inclusion. It suggests that critical research must construct a politics of engagement with subjugated voices and representations in transnational, national, and local contexts. A reflexive, critical, and inclusive dialogue that engages with Southern knowledge offers a political platform for reframing justice in the twenty-first century.

[The Digitalization Journey](#) Springer

The goal of this book is to showcase the beauty of mathematics as revealed in nine topics of discrete mathematics. In each chapter, properties are explored through a series of straightforward questions that terminate with results that lie at the doorstep of a field of study. Each step along the way is elementary and requires only algebraic manipulation. This frames the wonder of mathematics and highlights the complex world that lies behind a series of simple, mathematical, deductions. Topics addressed include combinatorics, unifying properties of symmetric functions, the Golden ratio as it leads to k-bonacci numbers, non-intuitive and surprising results found in a simple coin tossing game, the playful, trick question aspect of modular systems, exploration of basic properties of prime numbers and derivations of bewildering results that arise from approximating irrational numbers as continued fraction expansions. The Appendix contains the basic tools of mathematics that are used in the text along with a numerous list of identities that are derived in the body of the book. The mathematics in the book is derived from first principles. On only one occasion does it rely on a result not derived within the text. Since the book does not require calculus or advanced techniques, it should be accessible to advanced high school students and undergraduates in math or computer science. Senior mathematicians might be unfamiliar with some of the topics addressed in its pages or find interest in the book's unified approach to discrete math.

From Quadratic Equations to Quadratic Reciprocity Springer Science & Business Media

This collection of essays traces a scientific journey bookmarked by remarkable mentors and milestones of science. It provides fascinating reading for everyone interested in the history, public appreciation, and value of science, as well as giving first-hand accounts of many key events and prominent figures. The author was one of the "sputnik kids" growing up in the US at the start of the space age. He built a working laser just two years after

they were first invented, an experience that convinced him to become a physicist. During his 50-year career in physics, many personalities and notable events in science and technology helped to form his view of how science contributes to the modern world, including his conviction that the impact of science can be most effective when introduced within the context of the humanities - especially history, literature and the arts. From the Foreword by former U.S. Congressman,

Rush D. Holt: In this volume, we have the wide-ranging thoughts and observations of Fred Dylla, an accomplished physicist with an engineer's fascination for gadgets, a historian's long perspective, an artist's aesthetic eye, and a teacher's passion for sharing ideas. Throughout his varied career [...] his curiosity has been his foremost characteristic and his ability to see the connection between apparently disparate things his greatest skill. [...] Here he examines the roots and growth of

innovation in examples from Bell Laboratories, Edison Electric Light Company, and cubist painter Georges Braque. He considers the essential place of publishing in science, that epochal intellectual technique for learning how the world works. He shows the human enrichment and practical benefits that derive from wise investments in scientific research, as well as the waste resulting from a failure to embrace appropriate technologies.

Best Sellers - Books :

- [World Of Eric Carle, Around The Farm 30-button Animal Sound Book - Great For First Words - Pi Kids By Pi Kids](#)
- [Why A Daughter Needs A Dad: Celebrate Your Father Daughter Bond This Father's Day With This Special Picture Book! \(always In My Heart\) By Gregory E. Lang](#)
- [Are You There God? It's Me, Margaret.](#)
- [Bluey And Bingo's Fancy Restaurant Cookbook: Yummy Recipes, For Real Life](#)
- [Hunting Adeline \(cat And Mouse Duet\) By H. D. Carlton](#)
- [Twisted Games \(twisted, 2\)](#)
- [Tucker](#)
- [The Very Hungry Caterpillar](#)
- [If He Had Been With Me](#)
- [Hello Beautiful \(oprah's Book Club\): A Novel By Ann Napolitano](#)