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NEVEAH RISHI

Optimal Control of ODEs and DAEs Springer Science & Business Media

A mathematical journey through the most fascinating problems of extremes and how to solve them What is the best way to photograph a speeding bullet? How can lost hikers find their way out of a forest? Why does light move through glass in the least amount of time possible? When Least Is Best combines the mathematical history of extrema with contemporary examples to answer these intriguing questions and more. Paul Nahin shows how life often works at the extremes—with values becoming as small (or as large) as possible—and he considers how mathematicians over the centuries, including Descartes, Fermat, and Kepler, have grappled with these problems of minima and maxima. Throughout, Nahin examines entertaining conundrums, such as how to build the shortest bridge possible between two towns, how to vary speed during a race, and how to make the perfect basketball shot. Moving from medieval writings and modern calculus to the field of optimization, the engaging and witty explorations of When Least Is Best will delight math enthusiasts everywhere.

Concepts, Theories, and the Mind-Body Problem Charlesbridge Publishing

Florian Neukart describes methods for interpreting signals in the human brain in combination with state of the art AI, allowing for the creation of artificial conscious entities (ACE). Key methods are to establish a symbiotic relationship between a biological brain, sensors, AI and quantum hard- and software, resulting in solutions for the continuous consciousness-problem as well as other state of the art problems. The research conducted by the author attracts considerable attention, as there is a deep urge for people to understand what advanced technology means in terms of the future of mankind. This work marks the beginning of a journey – the journey towards machines with conscious action and artificially accelerated human evolution.

European Company Law Birkhäuser

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German books in print Springer Science & Business Media

Hanna and Andreas will do anything to leave oppressive East Germany behind. There's one escape route open to them, but can they survive it?

Hanna and Andreas have always been friends. When they're expelled from school for activism directly challenging the socialist state in East Germany, they end up doing factory work. But what kind of life do they have to look forward to without education or opportunity? Especially when they aren't allowed a voice? The choice to risk imprisonment or death by escaping to the democratic West seems like a risk worth taking. They set out to swim twenty-five hours across the choppy waters of the Baltic Sea. Linke's storytelling achieves a delicate balance between heightened moments of danger--searchlights, jellyfish, a Russian helicopter, a violent summer storm--and the monotony, ineffable fatigue, physical pain, cramping, fear, and hope that fill the rest of the journey. A memorable tale of two people risking all for a chance at freedom.

Chlorophylls Cambridge University Press

The artificial intelligence (AI) landscape has evolved significantly from 1950 when Alan Turing first posed the question of whether machines can think. Today, AI is transforming societies and economies. It promises to generate productivity gains, improve well-being and help address global challenges, such as climate change, resource scarcity and health crises.

Das Hochschulwesen Princeton University Press

Over the last few decades triangulated categories have become increasingly important, to the extent that they can now be viewed as a unifying theory underlying major parts of modern mathematics. This 2010 collection of survey articles, written by leading experts, covers fundamental aspects of triangulated categories, as well as applications in algebraic geometry, representation theory, commutative algebra, microlocal analysis and algebraic topology. These self-contained articles are a useful introduction for graduate students entering the field and a valuable reference for experts.

Big Data on Campus John Wiley & Sons

The book provides students of European company law courses, scholars and practitioners with an overview. Although company law remains mainly regulated at the level of national laws, it has become important to obtain a systematic view of the main directives in the field of company law, the EU Court of Justice's jurisprudence, the European Model Company Act and the state of implementation of these directives in the member states of the Union. The book therefore contains, in addition to the illustration of the law laid down by EU legislative bodies and the related soft laws, detailed

references to the most important domestic legislations and case laws, in order to make them known and usable as much as possible. Moreover, the book allows identifying the most relevant current legislative trends and the main historical reasons for divergences.

Triangulated Categories Springer

In diesem Buch thematisiert die Professorenschaft der accadis Hochschule die Auswirkungen der Digitalisierung auf ihre Fachbereiche: Notwendige Umbrüche der Wirtschaftsethik, Auswirkungen künstlicher Intelligenz auf Marketing und Produktentwicklung, Veränderungen in der Unternehmenskommunikation, digitale Innovationen in Sport- und Gesundheitsmanagement, intelligente Distribution mit Blockchain-Technologien sowie Tokens im Finanzmarkt.

Einstein's Italian Mathematicians: Ricci, Levi-Civita, and the Birth of General Relativity Springer Science & Business Media

Concepts, Theories, and the Mind-Body Problem was first published in 1958. Minnesota Archive Editions uses digital technology to make long-unavailable books once again accessible, and are published unaltered from the original University of Minnesota Press editions. This is Volume II of the Minnesota Studies in the Philosophy of Science, a series published in cooperation with the Minnesota Center for Philosophy of Science at the University of Minnesota. The series editors are Herbert Feigl and Grover Maxwell, who are also co-editors, with Michael Scriven, of this volume. The ten papers by eleven authors which make up the content of this volume are the result of collaborative research of the Center in philosophical and methodological problems of science in general and psychology in particular. The contributors are Paul Oppenheim, Hilary Putnam, Carl G. Hempel, Michael Scriven, Arthur Pap, Wilfrid Sellars, H. Gavin Alexander, P.F. Strawson, Karl Zener, Herbert Feigl, and Paul E. Meehl. In addition, an extensive discussion of "Internationality and the Mental" by Wilfrid Sellars and Roderick Chisholm is presented in an appendix. In a review of this volume the journal *Psychiatric Quarterly* commented: "These essays will not prove easy for the layman to read, but he can hardly fail to find his effort rewarded if he is persistent. For the professional behavioral scientist increased awareness and caution—in his use of scientific language, and thinking about scientific theory—should result." One of the papers in this volume, "The 'Mental' and the 'Physical'" by Herbert Feigl, has been published by the University of Minnesota Press with further discussion by Dr. Feigl as a separate book, *The "Mental" and the "Physical": The Essay and a Postscript*.

Taming the Infinite Springer-Verlag

The migration of immersive media towards telecommunication applications is advancing rapidly. Impressive progress in the field of media compression, media representation, and the larger and ever increasing bandwidth available to the customer, will foster the introduction of these services in the future. One of the key components for the envisioned applications is the development from two-dimensional towards three-dimensional audio-visual communications. With contributions from key experts in the field, *3D Videocommunication*: provides a complete overview of existing systems and technologies in 3D video communications and provides guidance on future trends and research; considers all aspects of the 3D videocommunication processing chain including video coding, signal processing and computer graphics; focuses on the current state-of-the-art and highlights the directions in which the technology is likely to move; discusses in detail the relevance of 3D videocommunication for telepresence systems and immersive media; and provides an exhaustive bibliography for further reading. Researchers and students interested in the field of 3D audio-visual communications will find *3D Videocommunication* a valuable resource, covering a broad overview of the current state-of-the-art. Practical engineers from industry will also find it a useful tool in envisioning and building innovative applications.

3D Videocommunication Hatje Cantz Pub

The completion of the Human Genome Project and the rapid progress in cell bi- ogy and biochemical engineering, are major forces driving the steady increase of approved biotech products, especially biopharmaceuticals, in the market. Today mammalian cell products (“products from cells”), primarily monoclonals, cytokines, recombinant glycoproteins, and, increasingly, vaccines, dominate the biopharmaceutical industry. Moreover, a small number of products consisting of in vitro cultivated cells (“cells as product”) for regenerative medicine have also been introduced in the market. Their efficient production requires comprehensive knowledge of biological as well as biochemical mammalian cell culture fundamentals (e.g., cell characteristics and metabolism, cell line establishment, culture medium optimization) and related engineering principles (e.g., bioreactor design, process scale-up and optimization). In addition, new developments focusing on cell line development, animal-free c- ture media, disposables and the implications of changing processes (multi-purpo- facilities) have to be taken into account. While a number of excellent books treating the basic methods and applications of mammalian cell culture technology have been published, only little attention has been afforded to their engineering aspects. The aim of this book is to make a contribution to closing this gap; it particularly focuses on the interactions between biological and biochemical and engineering principles in processes derived from cell cultures. It is not intended to give a c- prehensive overview of the literature. This has been done extensively elsewhere.

Education in Bavaria Walter de Gruyter GmbH & Co KG

This open access book introduces the reader to the foundations of AI and ethics. It discusses issues of trust, responsibility, liability, privacy and risk. It focuses on the interaction between people and the AI systems and Robotics they use. Designed to be accessible for a broad audience, reading this book does not require prerequisite technical, legal or philosophical expertise. Throughout, the authors use examples to illustrate the issues at hand and conclude the book with a discussion on the application areas of AI and Robotics, in particular autonomous vehicles, automatic weapon systems

and biased algorithms. A list of questions and further readings is also included for students willing to explore the topic further.

Internationale Bibliographie der Rezensionen wissenschaftlicher Literatur Franklin Classics Trade Press

The first dedicated new work since 1991, this book reviews recent progress and current studies in the chemistry, metabolism and spectroscopy of chlorophylls, bacteriochlorophylls and their protein complexes. Also discussed is progress on the applications of chlorophylls as photosensitizers in photodynamic therapy of cancerous tumours, and as molecular probes in biochemistry, medicine, plant physiology, ecology and geochemistry. Each section offers an introductory overview followed by concise, focused and fully-referenced chapters written by experts.

Real-World Problems for Secondary School Mathematics Students U of Minnesota Press

Edited by Gerfried Stocker and Christine Schepf. Essays by Peter J. Bentley, Erkki Huhtamo, Friedrich Kittler and Pierre Levy.

Reverse Engineering the Mind Springer Nature

Focusing on current and future uses of microbes as production organisms, this practice-oriented textbook complements traditional texts on microbiology and biotechnology. The editors have brought together leading researchers and professionals from the entire field of industrial microbiology and together they adopt a modern approach to a well-known subject. Following a brief introduction to the technology of microbial processes, the twelve most important application areas for microbial technology are described, from crude bulk chemicals to such highly refined biomolecules as enzymes and antibodies, to the use of microbes in the leaching of minerals and for the treatment of municipal and industrial waste. In line with their application-oriented topic, the authors focus on the "translation" of basic research into industrial processes and cite numerous successful examples. The result is a first-hand account of the state of the industry and the future potential for microbes in industrial processes. Interested students of biotechnology, bioengineering, microbiology and related disciplines will find this a highly useful and much consulted companion, while instructors can use the case studies and examples to add value to their teaching.

When Least Is Best Quercus

In the first decade of the twentieth century as Albert Einstein began formulating a revolutionary theory of gravity, the Italian mathematician Gregorio Ricci was entering the later stages of what appeared to be a productive if not particularly memorable career, devoted largely to what his colleagues regarded as the dogged development of a mathematical language he called the absolute differential calculus. In 1912, the work of these two dedicated scientists would intersect—and physics and mathematics would never be the same. Einstein's Italian Mathematicians chronicles the lives and intellectual contributions of Ricci and his brilliant student Tullio Levi-Civita, including letters, interviews, memoranda, and other personal and professional papers, to tell the remarkable, little-known story of how two Italian academicians, of widely divergent backgrounds and temperaments, came to provide the indispensable mathematical foundation—today known as the tensor calculus—for general relativity.

Production Factor Mathematics Johns Hopkins University Press

The availability and use of energy underpins all human activities, and many of the current and future challenges we face can be reduced to an energy problem. Among those problems that we know of today, we find climate change, overpopulation, and food shortages. For future foreseeable problems, we consider the development of advanced propulsion systems for space travel, space colonization, and building planetary or stellar megastructures. The efficient use and production of energy will help us to overcome these problems. It is key to the future of humankind, but what is it, and how does it permeate the cosmos? How has energy use contributed to the technical development and growth of humankind over thousands of years of human history? How do we use different forms of energy today, and how can we harvest and convert energy while also scaling from a

planetary level to a galactic level? As a civilization, we are facing tremendous challenges today; however, this book should serve as an inspiration and motivation for a prosperous future of humankind. Despite countless open questions and the mistakes we have made and will continue to make, we will find our way. We have always found a way.

Humankind's Hunger for Energy Springer Nature

This monograph explores the early development of the calculus of variations in continental Europe during the Eighteenth Century by illustrating the mathematics of its founders. Closely following the original papers and correspondences of Euler, Lagrange, the Bernoullis, and others, the reader is immersed in the challenge of theory building. We see what the founders were doing, the difficulties they faced, the mistakes they made, and their triumphs. The authors guide the reader through these works with instructive commentaries and complements to the original proofs, as well as offering a modern perspective where useful. The authors begin in 1697 with Johann Bernoulli's work on the brachistochrone problem and the events leading up to it, marking the dawn of the calculus of variations. From there, they cover key advances in the theory up to the development of Lagrange's δ -calculus, including: • The isoperimetrical problems • Shortest lines and geodesics • Euler's Methodus Inveniendi and the two Additamenta Finally, the authors give the readers a sense of how vast the calculus of variations has become in centuries hence, providing some idea of what lies outside the scope of the book as well as the current state of affairs in the field. This book will be of interest to anyone studying the calculus of variations who wants a deeper intuition for the techniques and ideas that are used, as well as historians of science and mathematics interested in the development and evolution of modern calculus and analysis.

Ubiquitous User Modeling Cambridge University Press

The intention of this textbook is to provide both, the theoretical and computational tools that are necessary to investigate and to solve optimal control problems with ordinary differential equations and differential-algebraic equations. An emphasis is placed on the interplay between the continuous optimal control problem, which typically is defined and analyzed in a Banach space setting, and discrete optimal control problems, which are obtained by discretization and lead to finite dimensional optimization problems.

Industrial Microbiology CRC Press/ LLC

This is a book full of ideas for introducing real world problems into mathematics classrooms and assisting teachers and students to benefit from the experience. Taken as a whole these contributions provide a rich resource for mathematics teachers and their students that is readily available in a single volume. Nowadays there is a universal emphasis on teaching for understanding, motivating students to learn mathematics and using real world problems to improve the mathematics experience of school students. However, using real world problems in mathematics classrooms places extra demands on teachers in terms of extra-mathematical knowledge e.g. knowledge of the area of applications, and pedagogical knowledge. Care must also be taken to avoid overly complex situations and applications. Papers in this collection offer a practical perspective on these issues, and more. While many papers offer specific well worked out lesson type ideas, others concentrate on the teacher knowledge needed to introduce real world applications of mathematics into the classroom. We are confident that mathematics teachers who read the book will find a myriad of ways to introduce the material into their classrooms whether in ways suggested by the contributing authors or in their own ways, perhaps through mini-projects or extended projects or practical sessions or enquiry based learning. We are happy if they do! This book is written for mathematics classroom teachers and their students, mathematics teacher educators, and mathematics teachers in training at pre-service and in-service phases of their careers.