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## **Book review: Radio Theory Handbook by Ron Bertrand VK2DQ**

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Football frenzy with Flash Sports founder Jason Graham; games, books and why Butkus and Uritas rule!*Physics*

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Book Ever Written! (Law Of  
Attraction) \*Learn THIS! Top  
Beginner's Astronomy Books!~~

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How to Get Your Brain to  
Focus | Chris Bailey |  
TEDxManchester

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The Fastest Way to Learn a  
New Language: The Solar  
System Theory How to Write a  
Book: 13 Steps From a  
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How to learn Quantum

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self-study guide)

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You See First and What It  
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*ATTENTION! This Is The Scary  
Truth About Bitcoin* \ "

*Edward Snowden* STOP EATING  
IT! 99% of People Thinks is  
Medicine, But It Hurts You!

*We've Found The Magic  
Frequency (This Will  
Revolutionize Our Future) A  
Simple Riddle That Nearly  
Fooled Albert Einstein! 5  
Rules (and One Secret  
Weapon) for Acing Multiple  
Choice Tests*

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Michio Kaku: 3 mind-blowing  
predictions about the future

| Big Think **The 528 Hz**

**Frequency** \ "I Tried To Warn

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~~You\" | Elon Musk's Last  
Warning (2021) Ben Shapiro  
Explains Basic Biology to a  
College Student *Learn*  
*Mathematics from START to*  
*FINISH* ~~Learning how to learn~~  
~~| Barbara Oakley |~~  
~~TEDxOaklandUniversity~~  
~~Learning Python? You Must~~  
~~take a look at this book!~~  
~~Not Just for Scientists. *The*~~  
~~*Most Famous Physics Textbook*~~  
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Laptop From a Textbook |  
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*others tricks? #harryviral*  
**How Bill Gates reads books**  
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Was ist der kürzeste Weg von A nach B? Menschen tun sich schwer damit, das zu ermitteln. Schuld ist eine Strategie, die zwar intuitiv sinnvoll erscheint, aber in die Irre führt.

**Klimaangst: »Für sich genommen ist Angst nicht gefährlich«**

Bender, Cora and Martin Zillinger (2015) Handbuch der Medienethnographie ...  
Van Maanen, John (2011) Tales of the field: On Writing Ethnography: Second Edition, Chicago: University of Chicago Press.

**Writing a Project Proposal**

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**SS 2018, Markus Schleiter**

Die postsynaptische Wirkung kommt entweder direkt über die Beeinflussung von Ionen-Kanälen oder indirekt über die Aktivierung von second messenger-Systemen zustande. Transmitter werden in der Regel ...

**Startseite Lexika Lexikon  
der Psychologie Aktuelle  
Seite:**

Bender, Cora and Martin  
Zillinger (2015) Handbuch  
der Medienethnographie ...  
Van Maanen, John (2011)  
Tales of the field: On  
Writing Ethnography: Second  
Edition, Chicago: University  
of Chicago Press.

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Like Bohr, Einstein and Heisenberg, Wolfgang Pauli was not only a Nobel laureate and one of the creators of modern physics, but also an eminent philosopher of modern science. This is the first book in English to include all his famous articles on physics and epistemology. They were actually translated during Pauli's lifetime by R. Schlapp and are now edited and annotated by Pauli's former assistant Ch. Enz. Pauli writes about the philosophical significance of complementarity, about



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space, time and causality, symmetry and the exclusion principle, but also about the role of the unconscious in modern science. His famous article on Kepler is included as well as many historical essays on Bohr, Ehrenfest, and Einstein as well as on the influence of the unconscious on scientific theories. The book addresses not only physicists, philosophers and historians of science, but also the general public.

R. D. Mindlin and Applied Mechanics is a collection of studies in the development of Applied Mechanics dedicated to Professor

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Raymond D. Mindlin by his former students. This book contains the development of specific areas of Mechanics of Solids to which Mindlin has contributed most. Organized into eight chapters, this text first discusses the past, present and likely future of photoelasticity. Subsequent chapters explore the development of the three-dimensional theory of elasticity; generalized elastic continua; bodies in contact with applications to granular media; and waves and vibrations in isotropic and anisotropic plates. Other chapters discuss the vibrations and wave

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propagation in rods, piezoelectric crystals, and electro-elasticity. Lastly, the lattice theories and continuum mechanics are described.

On the 10th of May 1842, his 25th birthday, the Berlin bookseller Julius Springer opened his own bookstore and at the same time began a career as a publisher. The publishing program was extended over the following generations, and the company expanded to become the most important German scientific publishing house. The author describes this development, mostly using information from the Springer archives.

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The addition of nearly 400 figures and tables makes this a highly informative document of the history of bookselling, publishing and science. A second volume contains the history of the publishing house from 1945 to 1992.

The English translation of *Osnovy kvantovoi mekhaniki* has been made from the third and fourth Russian editions. These contained a number of important additions and changes as compared with the first two editions. The main additions concern collision theory, and applications of quantum mechanics to the theory of the atomic nucleus

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and to the theory of elementary particles. The development of these branches in recent years, resulting from the very rapid progress made in nuclear physics, has been so great that such additions need scarcely be defended. Some additions relating to methods have also been made, for example concerning the quasiclassical approximation, the theory of the Clebsch-Gordan coefficients and several other matters with which the modern physicist needs to be acquainted. The alterations that have been made involve not only the elimination of obviously out-of-date

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material but also the refinement of various formulations and statements. For these refinements I am indebted to many persons who at different times have expressed to me their critical comments and suggestions. Particularly important changes have been made regarding the definition of a quantum ensemble in Section 14.

The series on 'Charged and Reactive Polymers' was set forth in two volumes concerning the fundamentals and applications of polyelectrolytes. A follow-up on 'Charged Gels and Membranes' would therefore

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seem appropriate, necessitating, however, some explanation for non-specialists. Theories of the most dilute gels originate in that of concentrated polyelectrolytes: the methods and problems are similar in structural, spectroscopic or thermodynamic properties. The borderline can be situated in dialysis conducted with a 'bag' impermeable to polyelectrolytes but not to small ions, solutes and water. One may recall Donnan's use of such a system to experiment and discover his famous law of unequal distribution of ions of different charge inside

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and out. Remarkably so, it is the difference in scale which characterizes the difference between poly electrolyte solutions and gels and membranes: the colloidal solution of macro molecules is heterogeneous only on the microscopic level, whereas the gel-solution system is a macroscopically heterogeneous one. A gel is formed when weak or strong cohesive forces counterbalance the dispersing ones (usually by crosslinking) without inhibiting the penetration of solvent and of small solutes into the polymeric network. The solvophile



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macromolecules cannot invade the total volume of liquid. As a result of phase-segregation excess solution and gel coexist and interact. The macroscopic swelling depends on gel cross-linking as well as on ionic concentration and type and ion-selectivities are observed.

The book presents a concise introduction to the basic methods and strategies in fractional calculus and enables the reader to catch up with the state of the art in this field as well as to participate and contribute in the development of this exciting research area. The

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contents are devoted to the application of fractional calculus to physical problems. The fractional concept is applied to subjects in classical mechanics, group theory, quantum mechanics, nuclear physics, hadron spectroscopy and quantum field theory and it will surprise the reader with new intriguing insights. This new, extended edition now also covers additional chapters about image processing, folded potentials in cluster physics, infrared spectroscopy and local aspects of fractional calculus. A new feature is exercises with elaborated

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solutions, which significantly supports a deeper understanding of general aspects of the theory. As a result, this book should also be useful as a supporting medium for teachers and courses devoted to this subject. Contents: Introduction Functions The Fractional Derivative Friction Forces Fractional Calculus The Fractional Harmonic Oscillator Wave Equations and Parity Nonlocality and Memory Effects Fractional Calculus in Multidimensional Space – 2D-Image Processing Fractional Calculus in Multidimensional Space – 3D-Folded Potentials

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in Cluster Physics Quantum  
Mechanics The Fractional  
Schrödinger Equation with  
the Infinite Well Potential  
– Numerical Results using  
the Riesz  
Derivative Uniqueness of a  
Fractional Derivative – the  
Riesz and Regularized  
Liouville Derivative as  
Examples Fractional Spin – A  
Property of Particles  
Described with the  
Fractional Schrödinger Equat  
ion Factorization Symmetries Th  
e Fractional Symmetric Rigid  
Rotor  $q$ -Deformed Lie Algebras  
and Fractional  
Calculus Infrared  
Spectroscopy of Diatomic  
Molecules Fractional  
Spectroscopy of Hadrons Magic

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Numbers in Atomic  
Nuclei Magic Numbers in Metal  
Clusters Fractors –

Fractional Tensor

Calculus Fractional

Fields Gauge Invariance in

Fractional Field Theories On

the Origin of Space Outlook

Readership: Students and  
researchers in physics.

Keywords: Mathematical

Physics; Fractional

Calculus; Long-Memory

Kernels; Non-Local Field

Theories; Fractional Quantum

Mechanics Key Features: This

was the first book on the

market covering the full

area of a physical

application of fractional

calculus The book provides a

skillful insight into a

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Vividly growing research area and guides the reader from his first steps on an introductory level up to the current state of the art of a physical interpretation and application in different fields. This book enables the reader to participate and contribute to the development of this exciting research area by applying these methods in his own research area.

Reviews: Reviews of the First Edition: "Fractional Calculus is an affordable and valuable introduction to the field that will appeal to physicists interested in scientific what-ifs."

Physics Today "... the first

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three chapters actually appear very helpful at the graduate level. Each chapter has a careful precis at the start. There are many analyses illustrating outcomes of fractional analyses... If this [fractional calculus] is the field of your research then this book is essential with numerous references.. "

Contemporary Physics "The book has the property that derived results are directly compared with experimental findings. As a consequence, the reader is guided and encouraged to apply the fractional calculus approach in her/his research area. The reviewer strongly recommends this book for

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beginners as well as specialists in the fields of physics, mathematics and complex adaptive systems."

Zentralblatt MATH "A very welcome new feature in the second edition is the inclusion of exercises at the end of every chapter, with detailed solutions in the back of the book. This book is specifically aimed at physicists, although many of my colleagues outside physics have also found it useful. This is particularly true of graduate students and beginning researchers, or those new to the subject of fractional calculus."

Mark Meerschaert Dept of  
Statistics and Probability,



# Online Library Handbuch Der Physik 2nd Edition Michigan State University

The Beginnings of Piezoelectricity, the first history of the subject, exhaustively examines how diverse influences led to the discovery of the phenomenon in 1880, and how they shaped subsequent research until the consolidation of an empirical and theoretical knowledge of the field circa 1895. Shaul Katzir's historical account shows that this 'mundane' science was an intriguing intellectual and practical enterprise, which involved originality, surprises and controversies.

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The success of Newton's mechanics, Maxwell's electrodynamic, Einstein's theories of relativity, and quantum mechanics is a strong argument for the space-time continuum. Nevertheless, doubts have been expressed about the use of a continuum in a science squarely based on observation and measurement. An exact science requires that qualitative arguments must be reduced to quantitative statements. The observability of a continuum can be reduced from qualitative arguments to quantitative statements by means of information theory.

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Information theory was developed during the last decades within electrical communications, but it is almost unknown in physics. The closest approach to information theory in physics is the calculus of propositions, which has been used in books on the frontier of quantum mechanics and the general theory of relativity. Principles of information theory are discussed in this book. The ability to think readily in terms of a finite number of discrete samples is developed over many years of using information theory and digital computers, just as the ability to think

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readily in terms of a  
continuum is developed by  
long use of differential  
calculus.

Contents: Historical  
Review Information Theory  
Applied to  
Measurements Coordinate  
Systems Time and  
Motion Propagation in Unusual  
Coordinate  
Systems Distinction of  
Sinusoidal Functions Discrete  
Topologies and Difference  
Equations Schrödinger and  
Klein-Gordon Difference  
Equations Schrödinger  
Difference Equation with  
Coulomb Field Klein-Gordon  
Difference Equation with  
Coulomb Field Dirac  
Difference Equation with

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Coulomb Field;Mathematical  
Supplements Readership:  
Physicists interested in  
mathematical physics,  
cosmology, high energy  
physics, nuclear and atomic  
physics. keywords:Calculus  
of Finite  
Differences;Coordinate  
Systems;Difference  
Equations;Discrete  
Coordinate Systems;Discrete  
Topologies;Metric;Metric  
Tensor;Quantum Physics;Space-  
Time Continuum;Space-Time  
Physics

This unique volume presents  
the scientific achievements  
of Nobel laureate Philip  
Anderson, spanning the many  
years of his career. In this

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new edition, the author has omitted some review papers as well as added over 15 of his research papers. As in the first edition, he provides an introduction to each paper by explaining the genesis of the papers or adding some personal history. The book provides a comprehensive overview of the author's work which include significant discoveries and pioneering contributions, such as his work on the Anderson model of magnetic impurities and the concept of localization; the study of spin glasses, the fluctuating valence problem and superexchange; his prediction of the

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existence of superfluidity in He<sup>3</sup>; his involvement in the discovery of the Josephson effect; his discovery of the "Higgs" mechanism in elementary particle physics; and so on. The new papers added to this edition include "Pressure Broadening in the Microwave and Infrared Regions" – a condensation of most of the author's thesis; "Ordering and Antiferromagnetism in Ferrites" – the best-known of the papers written by the author involving what are known as "frustrated" lattices; and "Localized Magnetic States in Metals" – a paper mentioned in his Nobel Prize citation along

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with localization and superexchange; to name a few. A Career in Theoretical Physics is an essential source of reference for physicists, chemists, materials scientists and historians of science. It is also suitable reading for graduate students.

Contents: Pressure Broadening in the Microwave and Infrared Regions  
Absence of Diffusion in Certain Random Lattices  
Theory of Dirty Superconductors  
Localized Magnetic States in Metals  
Infrared Catastrophe in Fermi Gases with Local Scattering Potentials  
The Fermi Glass: Theory and Experiment  
Possible



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Consequences of Negative U  
Centers in Amorphous  
Materials  
Localization  
Redux  
Suggested Model for  
Prebiotic Evolution: The Use  
of Chaos  
Physics: The Opening  
to Complexity  
and other  
papers  
Readership:  
Physicists, chemists and  
materials scientists.  
Keywords: Theoretical  
Physics; Spin  
Glasses; Localization; High Tc  
Superconductivity  
Magnetism  
Key  
Features: Comprehensive  
collection of many  
significant topics  
Philip Anderson has worked on  
Some of the papers included are  
now hard to find elsewhere,  
and each has been

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embellished with commentary  
on how they came to be  
writtenAnderson has also  
provided an interesting  
introduction setting out his  
philosophy of what is  
important in scienceFully  
updated to include  
significant new papers  
(around 120 more pages)

Advances in Electronics and  
Electron Physics

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