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The discovery of nuclear magnetic resonance earned Felix Bloch and Ed Purcell the 1952 Nobel Prize in Physics. What their discovery took advantage of, is that protons are the world's smallest magnets. These tiny magnets can also be used to make a magnetometer, of the type described in this book. This book describes how to build a proton precession magnetometer, suitable for measurements of the Earth's magnetic field. This method of measuring magnetic fields offers the theoretically highest possible precision, limited only by the known value of the gyromagnetic ratio of the proton. Uses of the magnetometer include: making precise measurements of the Earth's magnetic field, calibrating low field magnetometers, teaching modern signal processing techniques, demonstrating nuclear magnetism and NMR to students, and measuring nuclear magnetic relaxation in liquids. The Earth's field proton precession magnetometer, called the Magnum, described in this book, was formerly a commercial product, developed and sold by Exstrom Laboratories LLC. It was designed by Stefan Hollos and Richard Hollos.

There has been a recent surge in hardware developments with respect to mobile NMR and MRI systems, from which novel applications are starting to emerge. These comparatively low cost systems allow either for more routine use of NMR and MRI, generally for material quality control, or they allow for the analysis of samples whose size and shape precludes conventional NMR and MRI application. This book will, for the first time, summarise these recent hardware developments, highlight the challenges facing mobile and generally low-field NMR and MRI

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and describe various applications. Including chapters on commercial applications in well logging and food content measurements, the broad appeal of this book will fill a gap in the literature for NMR spectroscopists, analytical chemists and all those involved in measurement science in both industry and academia.

The Times Literary Supplement called their previous book, *Symmetry and the Beautiful Universe*: [A] tour de force of physics made simple. Quantum theory is the bedrock of contemporary physics and the basis of understanding matter in its tiniest dimensions and the vast universe as a whole. But for many, the theory remains an impenetrable enigma. Nobel Prize laureate Leon M. Lederman and Fermi lab theoretical physicist Christopher T. Hill seek to remedy this situation by both drawing on their scientific expertise and their talent for communicating science to the general reader. In this lucid, informative book, designed for the curious, they make the seemingly daunting subject of quantum physics accessible, appealing, and exciting. Their story is partly historical, covering the many Eureka moments when great scientists—Max Planck, Albert Einstein, Niels Bohr, Werner Heisenberg, Erwin Schrödinger, and others—struggled to come to grips with the bizarre realities that quantum research revealed. Although their findings were indisputably proven in experiments, they were so strange and counterintuitive that Einstein refused to accept quantum theory, despite its great success. The authors explain the many strange and even eerie aspects of quantum reality at the subatomic level, from particles that can be many places simultaneously and sometimes act more like waves, to the effect that a human can have on their movements by just observing them! Finally, Drs. Lederman and Hill delve into quantum physics' latest and perhaps most breathtaking

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offshoots-field theory and string theory. The intricacies and ramifications of these two theories will give the reader much to ponder. In addition, the authors describe the diverse applications of quantum theory in its almost countless forms of modern technology throughout the world. Using eloquent analogies and illustrative examples, *Quantum Physics for Poets* render even the most profound reaches of quantum theory understandable and something for us all to savor. Leon M. Lederman, Nobel Laureate (Batavia, IL), is Resident Scholar at the Illinois Mathematics and Science Academy, Director Emeritus of Fermi National Accelerator Laboratory, Pritzker Professor of Science at the Illinois Institute of Technology, the author of the highly acclaimed *The God Particle*, the editor of *Portraits of Great American Scientists*, and a contributor to *Science Literacy for the Twenty-First Century*. Dr. Lederman and coauthor Christopher T. Hill are also the coauthors of *Symmetry and the Beautiful Universe*. Christopher T. Hill, PhD (Batavia, IL), is chairman of the Department of Theoretical Physics and a theoretical physicist (Scientist III) at Fermi National Accelerator Laboratory.

Quantum-Mechanical Signal Processing and Spectral Analysis describes the novel application of quantum mechanical methods to signal processing across a range of interdisciplinary research fields. Conventionally, signal processing is viewed as an engineering discipline with its own specific scope, methods, concerns and priorities, not usually encompassing quantum mechanics. However, the dynamics of systems that generate time signals can be successfully described by the general principles and methods of quantum physics, especially within the Schrodinger framework. Most time signals that are measured experimentally are mathematically equivalent to quantum-mechanical auto-correlation functions built from the

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evolution operator and wavefunctions. This fact allows us to apply the rich conceptual strategies and mathematical apparatus of quantum mechanics to signal processing. Among the leading quantum-mechanical signal processing methods, this book emphasizes the role of Pade approximant and the Lanczos algorithm, highlighting the major benefits of their combination. These two methods are carefully incorporated within a unified framework of scattering and spectroscopy, developing an algorithmic power that can be exported to other disciplines. The novelty of the author's approach to key signal processing problems, the harmonic inversion and the moment problem, is in establishing the Pade approximant and Lanczos algorithm as entirely algebraic spectral estimators. This is of paramount theoretical and practical importance, as now spectral analysis can be carried out from closed analytical expressions. This overrides the notorious mathematical ill-conditioning problems with round-off errors that plague inverse reconstructions in those fields that rely upon signal processing. Quantum-Mechanical Signal Processing and Spectral Analysis will be an invaluable resource for researchers involved in signal processing across a wide range of disciplines.

Quantum physics, quantum theory.

Explore the history of the discovery and the properties of the electron, the negatively charged subatomic particle that orbits around an atom's nucleus.

Church leaders must fundamentally change the way they view leadership, governance, and management in their organizations if they are to take seriously the need to listen to God's

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desires before acting. In Leadership and Listening, readers will find encouragement and specific suggestions for re-imagining church governance and management. Zimmer observes that the contemporary church is rooted in both the kingdom of God and the systems and cultures of government and business. Most people who serve in governing and management roles in the church in the United States today have been formed in the corporate world and acculturated to parliamentary process. As a result, many church governing boards are about 'business,' rather than their primary task: discerning God's desires for the part of the church they serve. Through research with more than one hundred church leaders, Zimmer learned that the church and the business community possess many insights and resources that can help boards shift toward a focus on seeking first the desires of God's heart and then responding effectively. By drawing on the guidance Zimmer offers, a church board can transform itself from a group that manages the day-to-day affairs of the church to one that makes listening, prayer, worship, reflection, and community the first priority.

The world's foremost experimental physicist uses humor, metaphor, and storytelling to delve into the mysteries of matter, discussing the as-yet-to-be-discovered God particle.

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