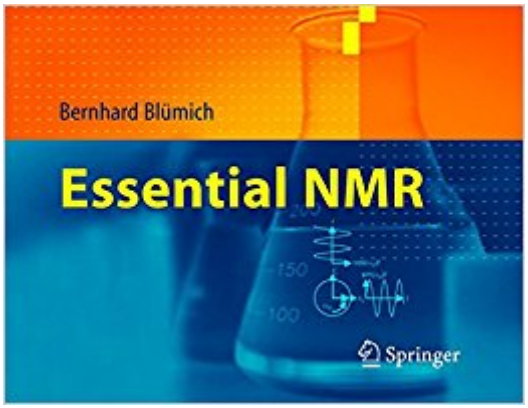
Essential NMR: For Scientists And Engineers



Synopsis

Essential NMR gives scientists and engineers an easy and quick refresher on their NMR knowledge and skills. At the same time, this primer and review affords lecturers material to provide a deliver a framework of basic know-how covering all fields of NMR, i.e. NMR methodology and hardware, chemical analysis, 2D-spectroscopy, NMR imaging, flow NMR, and quality-control NMR. Concise explanatory text, with the key information, is enhanced a color illustration that graphically reinforces understanding. Rigorous derivations are avoided in favor of intuitive arguments. No other teaching-and-learning text addresses all the different aspects of NMR in such a comprehensive and concise fashion.

Book Information

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Customer Reviews

From the reviews: "In addition to the classical applications in chemical analysis, NMR spectroscopy has made spectacular advances into many other areas of application â | . The authorâ ™s aim was to collect these different areas of application together within a single book, in a concise and informative way â | . The figures are of excellent quality throughout â | . this is a very nice collection â | . It will certainly be bought by university lecturers, NMR departments, and libraries." (Arne LÃ tzen, Angewandte Chemie, Vol. 44 (40), 2005) "A compendium for graduate and postgraduate students of physics and chemistry as well as for their teachers. All fields of NMR are covered â | . The format of the book is such that a particular topic is dealt with on two pages. One page contains informative text, while the facing page shows a colour illustration." (Angewandte Chemie, Vol. 44

(40), June, 2005) "This is the most comprehensive textbook on NMR to date." (www.organische-chemie.ch, July 11, 2005) "Essential NMR covers all areas of NMR and provides an excellent overview of the background and the different uses of magnetic resonance in spectroscopy, imaging, flow and quality control. â | It can therefore be highly recommended to students in engineering studies to get a general idea of NMR. Scientists of all branches of magnetic resonance will certainly get rid of their professional blinkers after reading this book â | ." (Christina M. Thiele, Macromolecular Chemistry and Physics, Vol. 270 (10), 2006) "Professor BlÃ mich has published his lecture notes and PowerPoint presentation on NMR. â | this excellent book, which covers around 195 double page aspects of NMR science the author uses for a one-semester course. Anyone working in the molecular sciences would find this book very useful in expanding their knowledge on the applications and principles of NMR." (Helmut HÃ gel, Chemistry in Australia, December, 2006)

ESSENTIAL NMR is a set of lecture notes for scientists and engineers who want to brush up on their knowledge of NMR. This book is also a compendium for graduate and postgraduate students of physics and chemistry as well as for their teachers, covering all fields of NMR, i.e. NMR methodology and hardware, chemical analysis, 2D-spectroscopy, NMR imaging, flow NMR, and quality control NMR. The material, selected and organized for a one-semester course, is presented with pairs of pages addressing particular topics. One page of each pair provides a text containing the key information, the other page shows a color illustration. This is the most comprehensive textbook on NMR to date.The book is intended for beginning graduate students and doctoral students of Physics, Chemistry, Chemical Engineering, and Material Science.

This book is a great review or summary. Not recommended for trying learn the material for the first time on your own, but great as a review if you’ve learned it before and want to review the major details.

It’s not a propriate bood for beginer to study NMR knowledge, but good for teachers to prepare class teaching materials.

2: Electricity and Magnetism, Light (Physics, for Scientists & Engineers, Chapters 22-35) Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) Advice to Rocket Scientists: A Career Survival Guide for Scientists and Engineers (Library of Flight) Essential MATLAB for Engineers and Scientists, Sixth Edition Essential MATLAB for Engineers and Scientists, Fifth Edition Essential MATLAB for Engineers and Scientists Essential Oils: 50 Essential Oil Dog & Cat Recipes From My Essential Oil Private Collection: Proven Essential Oil Recipes That Work! (Essential Oil Pet Private Collection Book 1) Essential Oils: Essential Oil Recipe Book - 30 Proven Essential Oil Recipes ::: My Essential Oil Private Collection Vol. 1 (Private Collection Essential Oils) Experimental Pulse NMR: A Nuts and Bolts Approach Mathematical Handbook for Scientists and Engineers: Definitions, Theorems, and Formulas for Reference and Review (Dover Civil and Mechanical Engineering) NMR Spectroscopy in Inorganic Chemistry (Oxford Chemistry Primers) NMR: THE TOOLKIT: How Pulse Sequences Work (Oxford Chemistry Primers) Nmr of Paramagnetic Molecules in Biological Systems (Physical Bioinorganic Chemistry Series) Understanding NMR Spectroscopy, Second Edition Dynamic Nmr Spectroscopy NMR in Organometallic Chemistry Physics for Scientists and Engineers, Hybrid (with Enhanced WebAssign Homework and eBook LOE Printed Access Card for Multi Term Math and Science)