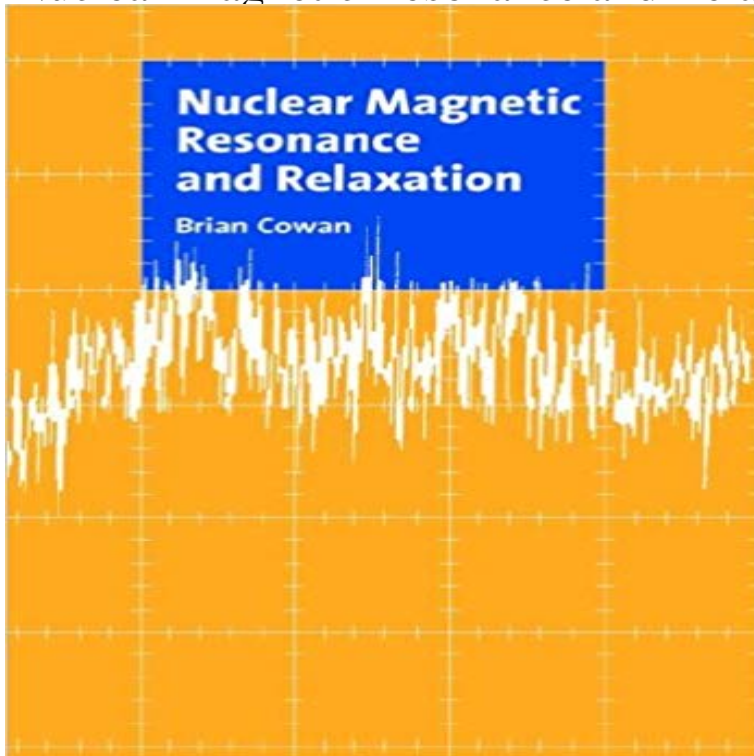


Nuclear Magnetic Resonance and Relaxation



This book provides an introduction to the general principles of nuclear magnetic resonance and relaxation, concentrating on simple models and their application. It includes an introduction to the ideas and applications of nuclear magnetic resonance and emphasizes the concepts of relaxation and the time domain. Some relatively advanced topics are treated, but the approach is graduated and all points of potential difficulty are carefully explained. An introductory classical discussion of relaxation is followed by a quantum-mechanical treatment. A selection of case studies is considered in depth, providing applications of the ideas developed in the text. There are a number of appendixes, including one on random functions. This treatment of one of the most important experimental techniques in modern science will be of great value to final-year undergraduates, graduate students and researchers using nuclear magnetic resonance, particularly physicists, and especially those involved in the study of condensed matter physics.

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