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Physics of Continuous Media: Problems and Solutions in ...

The fundamental equations of the electrodynamics of continuous media are obtained by averaging the equations for the electromagnetic field in a vacuum. The form of the equations of macroscopic electrodynamics and the significance of the quantities appearing in them depend on the physical nature of the medium and on the way in which the field varies with time.

This textbook is based on lectures and tutorials given for several years at the Physics Department of Novosibirsk State University. It is constructed as a set of problems followed by detailed solutions and may act as a complementary text for standard courses on the physics of continuous media.

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Covering a wide range of topics, this textbook is aimed at undergraduate and postgraduate students in physics and applied mathematics. It is constructed as a set of problems followed by detailed and rigorous solutions with the aim of exploring and illustrating general theory. Problems are novel and topical and the quality of exposition in solutions is excellent. It will thus act as a complimentary text for standard courses on the physics of continuous media.

Physics of Continuous Matter: Exotic and Everyday Phenomena in the Macroscopic World, Second Edition provides an introduction to the basic ideas of continuum physics and their application to a wealth of macroscopic phenomena. The text focuses on the many approximate methods that offer insight into the rich physics hidden in fundamental continuum mechanics equations. Like its acclaimed predecessor, this second edition introduces mathematical tools on a "need-to-know" basis. New to the Second Edition This edition includes three new chapters on elasticity of slender rods, energy, and entropy. It also offers more margin drawings and photographs and improved images of simulations. Along with reorganizing much of the material, the author has revised many of the physics arguments and mathematical presentations to improve clarity and consistency. The collection of problems at the end of each chapter has been expanded as well. These problems further develop the physical and mathematical concepts presented. With worked examples throughout, this book clearly illustrates both qualitative and quantitative physics reasoning. It emphasizes the importance in understanding the physical principles behind equations and the conditions underlying approximations. A companion website provides a host of ancillary materials, including software programs, color figures, and additional problems.

This book focuses on the interactions of ultrashort single-cycle electromagnetic pulses with dispersive, lossy, and magnetized media. A number of new results are presented here and are not found elsewhere in the literature. Comparisons between time-domain - frequency-domain methods will engage the broad electromagnetic theory community of physical and electrical engineers. In finding solutions directly in time domain, that is, beyond the scope of traditional Fourier presentations, A.B. Shvartsburg provides new insights for engineers and physicists in many areas: space and plasma physics, optics and communication theory, general and wave physics, optoelectronics, and radio techniques.

Covers the theory of electromagnetic fields in matter, and the theory of the macroscopic electric and magnetic properties of matter. There is a considerable amount of new material particularly on the theory of the magnetic properties of matter and the theory of optical phenomena with new chapters on spatial dispersion and non-linear optics. The chapters on ferromagnetism and antiferromagnetism and on magnetohydrodynamics have been substantially enlarged and eight other chapters have additional sections.

Outstanding, wide-ranging material on classification and reduction to canonical form of second-order differential equations; hyperbolic, parabolic, elliptic equations, more. Bibliography.

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