



Structure of Matter: An Introductory Course with Problems and Solutions (UNITEXT)

By Attilio Rigamonti, Pietro Carretta

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This textbook is based on a mixture of simplified institutional theory and solved problems. The choice has been to limit the attention to key concepts and to the most typical aspects of atoms, molecules and solids, looking at the basic "structural" aspects without dealing in detail with the properties originating from them. The problems are entangled to the formal presentation of the arguments, being designed as an intrinsic part of the pathway the student should move by in order to grasp the key concepts.

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Review

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"This highly recommended textbook builds bridges between elementary physics and research activities. Its main strength lies in its mixture of simplified theory in the main text and deeper exploration in the solved problems. It addresses key concepts and typical aspects of atoms, molecules and solids. ... The numerous graphs and problems with solutions make this book particularly useful for self-studying an extremely wide scope of the structure of matter." (Peter Enders, Optics and Photonics News, February, 2008)

About the Author

Attilio Rigamonti is full professor of Structure of Matter at the University of Pavia since 1976. Has given courses, lectures and seminars at many Universities, in Europe and in U.S, at international schools and congresses, as invited speaker. Supervisor of international research projects, member of Academies and scientific committees, Referee for international journals, has been requested to collaborate in books by Academic Press and Springer Verlag and by Institute of Physics for Advances in Physics and for Reports of Progress in Physics. Author of more than 200 papers published on the most important scientific journals and textbooks. Research fields include liquids, polymers and gels; ferroelectric and structural transitions; disorder, non-linearity and incommensuration effects; paramagnets, antiferromagnets and spin dynamics; high temperature superconductivity and superconducting fluctuations. Experimental techniques of expertise are pulsed NMR and NQR in solids; EPR and Mossbauer spectroscopies; dielectric and magnetic susceptibility.

Pietro Carretta is Associate Professor of Physics of Matter at the University of Pavia since 2001. Has given courses, lectures and seminars both in Italy and abroad. Has been member of the scientific and organizing committee of several conferences, member of the steering committee of European facilities and programmes, Referee for many international journals and international institutions. Author of about 100 manuscripts in peer reviewed international journals, including review articles for Reports for Progress in Physics and book chapters. Has been Principal Investigator of national projects. His research activity was basically experimental and mainly concerned the application of NMR-NQR and muSR to the study of high-T_c superconductors, one-dimensional organic conductors, magnetic clusters and one and two-dimensional quantum antiferromagnets.

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