

Statistical Mechanics of Solids (Monographs on the Physics and Chemistry of Materials)

By Louis A. Girifalco



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This monograph, suitable for use as an advanced text, presents the statistical mechanics of solids from the perspective of the material properties of the solid state. The statistical mechanics are developed as a tool for understanding properties and each chapter includes useful exercises to illustrate the topics covered. Topics discussed include the theory of the harmonic crystal, the theory of free electrons in metal and semiconductors, electron transport, alloy ordering, surfaces and polymers.



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Louis A. Girifalco is Professor of Materials Science at the University of Pennsylvania.

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