

some personal history. The book provides a comprehensive overview of the author's work which include significant discoveries and pioneering contributions, such as his work on the Anderson model of magnetic impurities and the concept of localization; the study of spin glasses, the fluctuating valence problem and superexchange; his prediction of the existence of superfluidity in He₃; his involvement in the discovery of the Josephson effect; his discovery of the "Higgs" mechanism in elementary particle physics; and so on. The new papers added to this edition include "Pressure Broadening in the Microwave and Infrared Regions" — a condensation of most of the author's thesis; "Ordering and Antiferromagnetism in Ferrites" — the best-known of the papers written by the author involving what are known as "frustrated" lattices; and "Localized Magnetic States in Metals" — a paper mentioned in his Nobel Prize citation along with localization and superexchange; to name a few. A Career in Theoretical Physics is an essential source of reference for physicists, chemists, materials scientists and historians of science. It is also suitable reading for graduate students.

Contents: Pressure Broadening in the Microwave and Infrared Regions
Absence of Diffusion in Certain Random Lattices
Theory of Dirty Superconductors
Localized Magnetic States in Metals
Infrared Catastrophe in Fermi Gases with Local Scattering Potentials
The Fermi Glass: Theory and Experiment
Possible Consequences of Negative U Centers in Amorphous Materials
Localization Redux
Suggested Model for Prebiotic Evolution: The Use of Chaos
Physics: The Opening to Complexity
and other papers

Readership: Physicists, chemists and materials scientists. Keywords: Theoretical Physics; Spin Glasses; Localization; High T_c Superconductivity Magnetism

Key Features: Comprehensive collection of many significant topics Philip Anderson has worked on Some of the papers included are now hard to find elsewhere, and each has been embellished with commentary on how they came to be written Anderson has also provided an interesting introduction setting out his philosophy of what is important in science Fully updated to include significant new papers (around 120 more pages)

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