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Resonance Energy Transfer

David L. Andrews, Andrey A. Demidov

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The resonance transfer of energy between molecules, or between sites within a large molecule, plays a central role in many areas of modern chemistry and physics. In biophysics, for example, this process defines the migration of excitation energy within photosynthetic systems (commonly the Frster mechanism). Another important area is in crystals, laser and other laser materials.

Resonance Energy Transfer contains a large amount of cutting-edge research which has never before appeared in book form. It is the first comprehensive modern survey of the field, offering a broad, yet detailed view of the mechanisms of energy transfer. The broad range of applications of fluorescence and fluorescence energy transfer to studies in molecular biology and biotechnology ensures that resonance energy transfer will be a vital component of the new science and technology of the next millenium.

This book is written for those working with materials, both experimentally and theoretically, as well as for biophysicists and biochemists interested in studying protein structure and dynamics.

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Foreword supplied by Professor Graham Fleming FRS, University of California, Berkeley, USA.

Cover shows the Peripheral Light Harvesting Complex (LH2) of Rps.acidophila kindly supplied by Dr. Stephen M. Prince, University of Glasgow, UK.

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