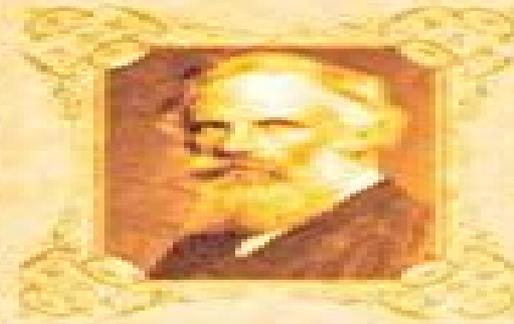


The Maxwellians



Bruce J. Hunt

The Maxwellians

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The Maxwellians:

The Maxwellians Bruce J. Hunt, 1994 The Maxwellians is a remarkable achievement Hunt combines the highest level of professional historical scholarship with a narrative that is lively and compelling throughout Nature James Clerk Maxwell published the Treatise on Electricity and Magnetism in 1873 At his death six years later his theory of the electromagnetic field was neither well understood nor widely accepted By the mid 1890s however it was regarded as one of the most fundamental and fruitful of all physical theories Bruce J Hunt examines the joint work of a group of young British physicists G F FitzGerald Oliver Heaviside and Oliver Lodge along with a key German contributor Heinrich Hertz It was these Maxwellians who transformed the fertile but half finished ideas presented in the Treatise into the concise and powerful system now known as Maxwell s theory

Hertz and the Maxwellians James G. O'Hara, Willibald Pricha, 1987 Heinrich Hertz s electrodynamic investigations culminating in the demonstration of the finite velocity of propagation of electromagnetic wave radiation in 1887 88 were like the discovery of the electron in the following decade events of major significance in the history of science and technology The importance of Hertz s achievement lay in the first instance in the verification of James Clerk Maxwell s electromagnetic wave theory The ground for Hertz s investigations had however been prepared by the group of British and Irish physicists the Maxwellians who had explored Maxwell s theory and partially anticipated Hertz s discoveries This book documents and discusses the prediction and discovery of electromagnetic wave radiation by the Maxwellians and Hertz between 1873 and 1894 using the published writings and the unpublished letters and manuscripts of those concerned For the historian of science and technology the work contains valuable primary source material and represents an edition of Hertz s correspondence in English or with scientists in the English speaking world For the physicist engineer or general reader the book provides a lucid and authoritative account of this fundamental discovery which has proved to be the basis of a major part of telecommunications engineering in the twentieth century dust jacket

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Theory of Dispersed Multiphase Flow Richard E. Meyer, 1983 *Science in Ireland 1800-1930* John R. Nudds, 1988 *Discovery Science*, 2001 *Handbook of Molecular Physics and Quantum Chemistry, 3 Volume Set* Stephen Wilson, 2003-03-07 Published in three volumes this comprehensive reference work brings together in a single source for the first time a detailed presentation of the most important theoretical concepts and methods for the study of molecules and

molecular systems The logical format of the Handbook allows the reader to progress from the foundations of the field to the most important and exciting areas of current research Edited and written by an outstanding international team and containing over 100 articles written by more than 50 contributors it will be invaluable for both the expert researcher and the graduate student or postdoctoral worker active in any of the broad range of fields where these concepts and methods are important Comprises three themed volumes Fundamentals Molecular Electronic Structure Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties Presents detailed articles covering the key topics presented in a didactic manner Focuses both on theory and the relation of experiment to theory Volume 1 Fundamentals presents the foundations of molecular physics and quantum chemistry It consists of 7 parts arranged as follows Part 1 Introduction Part 2 Elements of Quantum Mechanics Part 3 Orbital Models for Atomic Molecular and Crystal Structure Part 4 Symmetry Groups and Molecular Structure Part 5 Second Quantization and Many Body Methods Part 6 Approximate Separation of Electronic and Nuclear Motion Part 7 Quantum Electrodynamics of Atoms and Molecules The central problem of molecular physics and quantum chemistry is the description of atomic and molecular electronic structure The development of appropriate models for the description of the effects of electron correlation and of relativity are key components of the analysis Volume 2 Molecular Electronic Structure addresses these topics and consists of 7 parts arranged as follows Part 1 Approximation methods Part 2 Orbital Models and Generalized Product Functions Part 3 Electron correlation Part 4 Relativistic molecular electronic structure Part 5 Electronic structure of large molecules Part 6 Computational quantum chemistry Part 7 Visualization and interpretation of molecular electronic structure In reality no molecular system exists in isolation Molecules interact with other atoms and molecules and with their environment Volume 3 Molecules in the Physico Chemical Environment Spectroscopy Dynamics and Bulk Properties consists of 7 parts arranged as follows Part 1 Response theory and propagator methods Part 2 Interactions between molecules Part 3 Molecules in different environments Part 4 Molecular Electronic spectra Part 5 Atomic Spectroscopy and Molecular Vibration Rotation Spectroscopy Part 6 Molecular dynamics and dynamical processes Part 7 Bulk properties

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