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The Maxwellians is a book by Bruce J. Hunt, published in 1991 by Cornell University Press; a paperback edition appeared in 1994, and the book was reissued in 2005. It chronicles the development of electromagnetic theory in the years after the publication of *A Treatise on Electricity and Magnetism* by James Clerk Maxwell.

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The terminology "Maxwellians" refers to the names of George Francis Fitzgerald, "the soul of the Maxwellian group," Oliver Lodge, Oliver Heaviside, Heinrich Hertz and J.H. Poynting. Poynting believed "Models could be useful aids to the understanding, but they should not be mistaken for likenesses of reality."

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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." About the Publisher. Cornell University Press Cornell University Press was established in 1869, giving it the distinction of being the first university press to be ...

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The Maxwellians were not content to confine their attention to the purely electromagnetic aspects of Maxwell's theory. Like

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a long line of earlier British physicists, including William Thomson, G. G. Stokes, and Maxwell himself, they regarded all physical phenomena as essentially mechanical, and they sought to explain the electromagnetic equations in terms of the structure and motions of an underlying ether.

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The Maxwellians- Combined Academic

The Maxwellians is a book by Bruce J. Hunt, published in 1991 by Cornell University Press. It chronicles the development of electromagnetic theory in the years after the publication of A Treatise on Electricity and Magnetism by James Clerk Maxwell. The book reveals letters and publications, particularly by George Francis Fitzgerald, Oliver Lodge, and Oliver Heaviside.

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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

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Treatise into the concise and powerful system now known as "Maxwell's theory."

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"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

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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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Hunt translates his often-demanding material into engaging and accessible language suitable for undergraduate students of the history of science and technology.

James Clerk Maxwell (1831 -1879) was one of the most

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important mathematical physicists of all time, coming only after Newton and Einstein. In scientific terms his immortality is enshrined in electromagnetism and Maxwell's equations, but as this book shows, there was much more to Maxwell than electromagnetism, both in terms of his science and his wider life. Maxwell's life and contributions to science are so rich that they demand the expertise of a range of academics - physicists, mathematicians, and historians of science and literature - to do him justice. The various chapters will enable Maxwell to be seen from a range of perspectives. Early chapters deal with wider aspects of his life in time and place before looking in more detail at his wide ranging contributions to science, with concluding chapters on Maxwell's poetry and Christian faith. Each chapter is self-contained and can be

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read independently of the others.

The story of two brilliant nineteenth-century scientists who discovered the electromagnetic field, laying the groundwork for the amazing technological and theoretical breakthroughs of the twentieth century. Two of the boldest and most creative scientists of all time were Michael Faraday (1791-1867) and James Clerk Maxwell (1831-1879). This is the story of how these two men - separated in age by forty years - discovered the existence of the electromagnetic field and devised a radically new theory which overturned the strictly mechanical view of the world that had prevailed since Newton's time. The authors, veteran science writers with special expertise in physics and engineering, have created a lively narrative that

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interweaves rich biographical detail from each man's life with clear explanations of their scientific accomplishments.

Faraday was an autodidact, who overcame class prejudice and a lack of mathematical training to become renowned for his acute powers of experimental observation, technological skills, and prodigious scientific imagination. James Clerk Maxwell was highly regarded as one of the most brilliant mathematical physicists of the age. He made an enormous number of advances in his own right. But when he translated Faraday's ideas into mathematical language, thus creating field theory, this unified framework of electricity, magnetism and light became the basis for much of later, 20th-century physics. Faraday's and Maxwell's collaborative efforts gave rise to many of the technological innovations we take for

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granted today - from electric power generation to television, and much more. Told with panache, warmth, and clarity, this captivating story of their greatest work - in which each played an equal part - and their inspiring lives will bring new appreciation to these giants of science.

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