

**The scientific  
letters and papers of  
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# Scientific Letters And Papers Of James Clerk Maxwell

**Peter Michael Harman**



## **Scientific Letters And Papers Of James Clerk Maxwell:**

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light and his special place in the history of physics His fecundity of imagination and the sophistication of his examination of the foundations of physics give particular interest and importance to his writings Volume II 1862 1873 contains texts which illuminate Maxwell s scientific maturity In this period he wrote the classic works on field physics and statistical molecular theory which established his unique status in the history of science His important correspondence with Thomson and Tait provides remarkable insight into the major themes of his physics and the writing of his seminal Treatise on Electricity and Magnetism 1873

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[The Scientific Letters and Papers of James Clerk Maxwell: 1846-1862](#) Peter Michael Harman,1990 *The Scientific Letters and Papers of James Clerk Maxwell* James Clerk Maxwell,2008

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**The Scientific Papers of James Clerk Maxwell, Edited by W. D. Niven** James Clerk Maxwell,1890

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**Huxley's Church and Maxwell's Demon** Matthew Stanley,2014-11-24 During the Victorian period the practice of science shifted from a religious context to a naturalistic one It is generally assumed that this shift occurred because naturalistic science was distinct from and superior to theistic science Yet as Huxley s Church and Maxwell s Demon reveals most of the methodological values underlying scientific practice were virtually identical for the theists and the naturalists each agreed on the importance of the uniformity of natural laws the use of hypothesis and theory the moral value of science and intellectual freedom But if scientific naturalism did not rise to dominance because of its methodological superiority then how did it triumph Matthew Stanley explores the overlap and shift between theistic and naturalistic science through a parallel study of two major scientific figures James Clerk Maxwell a devout Christian physicist and Thomas Henry Huxley the iconoclast biologist who coined the word agnostic Both were deeply engaged in the methodological institutional and political issues that were crucial to the theistic naturalistic transformation What Stanley s analysis of these figures reveals is that the scientific naturalists executed a number of strategies over a generation to gain control of the institutions of

scientific education and to reimagine the history of their discipline Rather than a sudden revolution the similarity between theistic and naturalistic science allowed for a relatively smooth transition in practice from the old guard to the new

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**Scientific Papers of James Clerk Maxwell** Maxwell James Clerk, 1901 [The Natural Philosophy of James Clerk Maxwell](#) P. M. Harman, 1998-04-16 This book provides an introductory yet comprehensive account of James Clerk Maxwell's 1831-79 physics and world view The argument is structured by a focus on the fundamental themes that shaped Maxwell's science analogy and geometry models and mechanical explanation statistical representation and the limitations of dynamical reasoning and the relation between physical theory and its mathematical description This approach which considers his physics as a whole bridges the disjunction between Maxwell's greatest contributions the concept of the electromagnetic field and the kinetic theory of gases Maxwell's work and ideas are viewed historically in terms of his indebtedness to scientific and cultural traditions of Edinburgh experimental physics and of Cambridge mathematics and philosophy of science which nurtured his career Peter M Harman is Professor of the History of Science at Lancaster University He has published primarily on the history of physics and natural philosophy in the 18th and 19th centuries the period from Newton to Maxwell His previous books include Energy Force and Matter Cambridge 1982 The Investigation of Difficult Things Cambridge 1992 After Newton Essays on Natural Philosophy Variorum 1993 The Scientific Letters and Papers of James Clerk Maxwell volume 1 Cambridge 1990 volume 2 Cambridge 1995

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