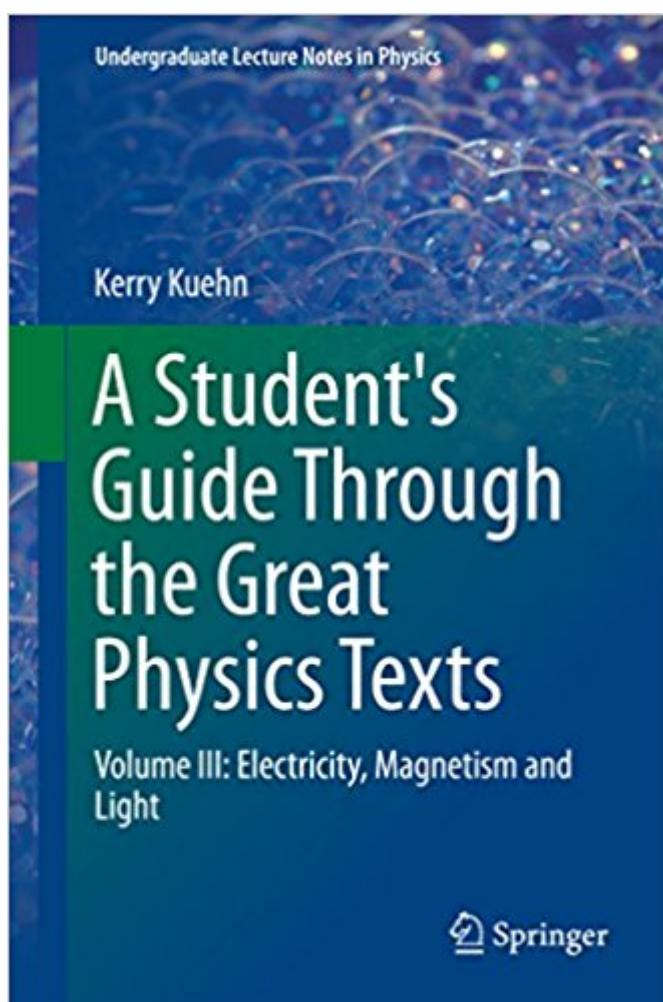


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A Student's Guide Through The Great Physics Texts: Volume III: Electricity, Magnetism And Light: 3 (Undergraduate Lecture Notes In Physics)





Synopsis

This book provides a chronological introduction to the electromagnetic theory of light, using selected extracts from classic texts such as Gilbertâ™s *De Magnete*, Franklinâ™s *Experiments and Observations on Electricity*, and Huygensâ™ *Treatise on Light*.Â Particular attention is given to the works of Faraday, Maxwell and Heaviside, scientists who unified the formerly separate disciplines of electricity, magnetism and light.Â Their electromagnetic theoryâ™ developed during the 19th centuryâ™ would lead to the invention of modern radar, electrical power grids, and telecommunication networks. Each chapter of this book begins with a short introduction followed by a reading selection.Â Carefully crafted study questions draw out key points in the text and focus the readerâ™s attention on the authorâ™s methods, analysis and conclusions.Â Numerical and laboratory exercises at the end of each chapter test the readerâ™s ability to understand and apply key concepts from the text. *Electricity, Magnetism and Light* is the third of four volumes in *A Studentâ™s Guide through the Great Physics Texts*.Â This book grew out of a four-semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics. This book is particularly suitable as a college-level textbook for students of the natural sciences, history or philosophy.Â It can also serve as a textbook for advanced high-school or home-schooled students, or as a thematically-organized source-book for scholars and motivated lay-readers.Â In studying the classic scientific texts included herein, the reader will be drawn toward a lifetime of contemplation.

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