

A Student's Guide to **Maxwell's Equations**

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materials including interactive solutions for every problem in the text and a series of podcasts in which the author explains the important concepts equations and graphs of every section of the book

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for undergraduate students looking for a succinct primer on the concepts and applications of atomic physics *A Student's Guide to Infinite Series and Sequences* Bernhard W. Bach, Jr., 2018-05-17 An informal and practically focused introduction for undergraduate students exploring infinite series and sequences in engineering and the physical sciences With a focus on practical applications in real world situations it helps students to conceptualize the theory with real world examples and to build their skill set *No-Nonsense Quantum Field Theory* Jakob Schwichtenberg, 2020-03-22 Learning quantum field theory doesn't have to be hard What if there were a book that allowed you to see the whole picture and not just tiny parts of it Thoughts like this are the reason that No Nonsense Quantum Field Theory now exists What will you learn from this book Get to know all fundamental concepts Grasp what a quantum field is why we use propagators to describe its behavior and how Feynman diagrams help us to make sense of field interactions Learn to describe quantum field theory mathematically Understand the meaning and origin of the most important equations the Klein Gordon equation the Dirac equation the Proca equation the Maxwell equations and the canonical commutation anticommutation relations Master important quantum field theory interactions Read fully annotated step by step calculations and understand the general algorithm we use to particle interactions Get an understanding you can be proud of Learn about advanced topics like renormalization and regularization spontaneous symmetry breaking the renormalization group equations non perturbative phenomena and effective field models No Nonsense Quantum Field Theory is one the most student friendly book on quantum field theory ever written Here's why First of all it's nothing like a formal university lecture Instead it's like a casual conversation with a more experienced student This also means that nothing is assumed to be obvious or easy to see Each chapter each section and each page focuses solely on the goal to help you understand Nothing is introduced without a thorough motivation and it is always clear where each equation comes from The book ruthlessly focuses on the fundamentals and makes sure you'll understand them in detail The primary focus on the reader's needs is also visible in dozens of small features that you won't find in any other textbook In total the book contains more than 100 illustrations that help you understand the most important concepts visually In each chapter you'll find fully annotated equations and calculations are done carefully step by step This makes it much easier to understand what's going on Whenever a concept is used that was already introduced previously there is a short sidenote that reminds you where it was first introduced and often recites the main points In addition there are summaries at the beginning of each chapter that make sure you won't get lost **No-Nonsense Electrodynamics** Jakob Schwichtenberg, 2018-12-06 Learning Electrodynamics doesn't have to be boring What if there was a way to learn Electrodynamics without all the usual fluff What if there were a book that allowed you to see the whole picture and not just tiny parts of it Thoughts like this are the reason that No Nonsense Electrodynamics now exists What will you learn from this book Get to know all fundamental electrodynamical concepts Grasp why we can describe electromagnetism using the electric and magnetic field the electromagnetic field tensor and the electromagnetic potential and how these concepts are connected Learn to describe

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Quantum Puzzle, The: Critique Of Quantum Theory And Electrodynamics Barry R Clarke, 2017-04-27 In 1861 James Clerk Maxwell published Part II of his four part series On physical lines of force In it he attempted to construct a vortex model of the magnetic field but after much effort neither he nor other late nineteenth century physicists who followed him managed to produce a workable theory What survived from these attempts were Maxwell's four equations of electrodynamics together with the Lorentz force law formulae that made no attempt to describe an underlying reality but stood only as a mathematical description of the observed phenomena When the quantum of action was introduced by Planck in 1900 the difficulties that had faced Maxwell's generation were still unresolved Since then theories of increasing mathematical complexity have been constructed to attempt to bring the totality of phenomena into order with little success This work examines the problems that had been abandoned long before quantum mechanics was formulated in 1925 and argues that these issues need to be revisited before real progress in the quantum theory of the electromagnetic field can be made

[Teach Yourself Physics](#) Jakob Schwichtenberg, 2020-02-12 This is a handbook containing all the advice and recommendations about learning physics I wished someone had told me when I was younger It is neither a career guide nor a comprehensive textbook What's inside Understand why self learning is an effective strategy Learn why most university students never develop a deep

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