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an authoritative view of maxwell's equations that takes theory to practice maxwell's equations is a practical guide to one of the most remarkable sets of equations ever devised professor paul huray presents techniques that show the reader how to obtain analytic solutions for maxwell's equations for ideal materials and boundary conditions these solutions are then used as a benchmark for solving real world problems coverage includes an historical overview of electromagnetic concepts before maxwell and how we define fundamental units and universal constants today a review of vector analysis and vector operations of scalar vector and tensor products electrostatic fields and the interaction of those fields with dielectric materials and good conductors a method for solving electrostatic problems through the use of poisson's and laplace's equations and green's function electrical resistance and power dissipation superconductivity from an experimental perspective and the equation of continuity an introduction to magnetism from the experimental inverse square of the biot savart law so that maxwell's magnetic flux equations can be deduced maxwell's equations serves as an ideal textbook for undergraduate students in junior senior electromagnetics courses and graduate students as well as a resource for electrical engineers

quantum mechanics an introduction lays the foundations for the rest of the course on quantum mechanics advanced quantum mechanics and field theory starting from black body radiation the photoelectric effect and wave particle duality greiner goes on to discuss the uncertainty relations spin and many body systems he includes applications to the hydrogen atom and the stern gerlach and einstein de haas experiments the mathematics of representation theory's matrices perturbation theory eigenvalue problems and hypergeometric differential equations are presented in detail with 88 fully and carefully worked examples and exercises to consolidate the material the text starts with the historical and

phenomenological background and then carefully builds up the wave mechanical treatment of matter this fourth edition includes improved explanatory remarks a total of 88 fully worked examples and more exercises

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