



# Electromagnetic Field Theory: A Problem Solving Approach

*Markus Zahn*

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## Electromagnetic Field Theory: A Problem Solving Approach Markus Zahn

Develops problem solving confidence through a series of increasingly complex worked examples, emphasizing problems based on physical processes, devices, and models. Covers charges as the source of the electric field coupled to polarizable and conducting media with negligible magnetic field; currents as the source of the magnetic field coupled to magnetizable media with electromagnetic induction generating an electric field; and electrodynamics where the electric and magnetic fields are of equal importance resulting in radiating waves. Presents sample problems and solutions for each new concept, using different problem solving methods to demonstrate advantages and limitations of each approach. Clarifies the rigorous mathematical development by describing systems with linear, constant co-efficient differential and difference equations.



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