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Figure 1.1 Examples of electric fields.

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Written to complement course textbooks, this book focuses on the topics that undergraduates in physics and engineering find most difficult.

Vectors and tensors are among the most powerful problem-solving tools available, with applications ranging from mechanics and electromagnetics to general relativity. Understanding the nature and application of vectors and tensors is critically important to students of physics and engineering. Adopting the same approach used in his highly popular *A Student's Guide to Maxwell's Equations*, Fleisch explains vectors and tensors in plain language. Written for undergraduate and beginning graduate students, the book provides a thorough grounding in vectors and vector calculus before transitioning through contra and covariant components to tensors and their applications. Matrices

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In the investigation of human behaviour,

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Equations & Solutions is covered, including a description of computer-aided tomography (CAT-scanning). The final chapter discusses digital methods, with particular attention to the fast Fourier transform. Throughout, discussion of these applications is reinforced by the inclusion of worked examples. The book assumes no previous knowledge of the subject, and will be invaluable to students of physics, electrical and electronic engineering, and computer science.

A concise treatment of variational techniques, focussing on Lagrangian and Hamiltonian systems, ideal for physics, engineering and mathematics students.

Max is used to being called Stupid. And he is used to everyone being scared of him. On account of his size and looking

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like his dad. Kevin is used to being called Dwarf. On account of his size and being some cripple kid. But greatness comes in all sizes, and together Max and Kevin become Freak The Mighty and walk high above the world. An inspiring, heartbreaking, multi-award winning international bestseller.

This book deals with electromagnetic theory and its applications at the level of a senior-level undergraduate course for science and engineering. The basic concepts and mathematical analysis are clearly developed and the important applications are analyzed. Each chapter contains numerous problems ranging in difficulty from simple applications to challenging. The answers for the problems are given at the end of the book. Some chapters which open doors to more advanced topics, such as wave theory,

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Special relativity, emission of radiation by charges and antennas, are included. The material of this book allows flexibility in the choice of the topics covered.

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