



Scattering Theory of Waves and Particles: Second Edition (Dover Books on Physics)

Roger G. Newton

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The observation and analysis of particle and wave scattering plays a crucial role in physics; numerous important discoveries, including nuclear fission, are the direct result of collision experiments. This concise volume crosses the boundaries of physics' traditional subdivisions to treat scattering theory within the context of classical electromagnetic radiation, classical particle mechanics, and quantum mechanics.

An enlarged and improved edition of Roger G. Newton's text on the theory of scattering electromagnetic waves, this text explores classical particles and quantum-mechanic particles, including multiparticle collisions. This edition's updates include coverage of developments in three-particle collisions, scattering by noncentral potentials, and inverse scattering problems. Numerous problems, examples, notes, and references augment the text.

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