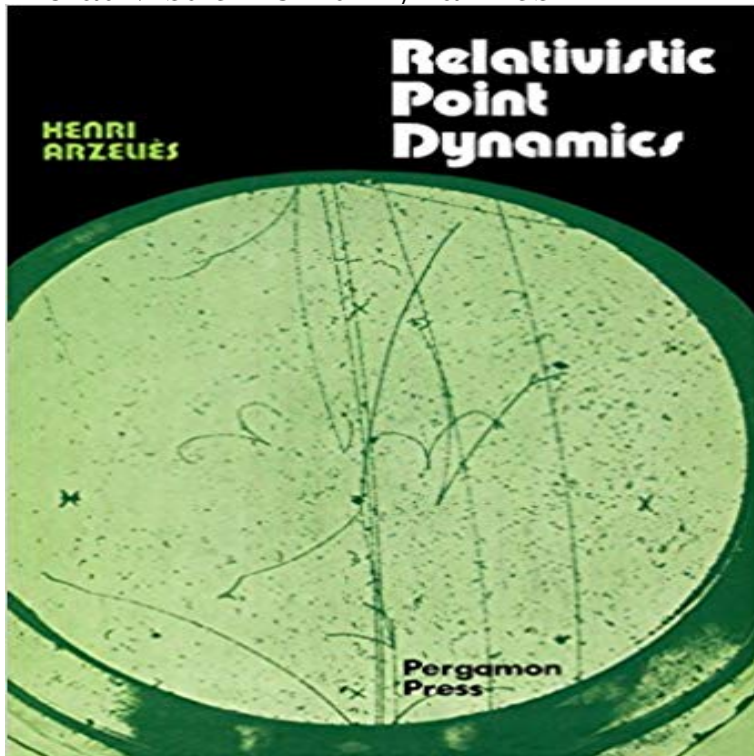


Relativistic Point Dynamics



Relativistic Point Dynamics focuses on the principles of relativistic dynamics. The book first discusses fundamental equations. The impulse postulate and its consequences and the kinetic energy theorem are then explained. The text also touches on the transformation of main quantities and relativistic decomposition of force, and then discusses fields of force derivable from scalar potentials; fields of force derivable from a scalar potential and a vector potential; and equations of motion. Other concerns include equations for fields; transfer of the equations obtained by variational methods into the Minkowski continuum; and analysis of the concepts for force and mass. The text also describes the interaction between two electric charges. The selection also discusses the reconsideration of the equivalence of mass and energy; fundamental postulates and general theorem; and relativistic rockets. The text also focuses on elastic collisions between two corpuscles, inelastic collisions, and the Compton effect. The book is a vital source of data for readers wanting to explore relativistic dynamics.

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