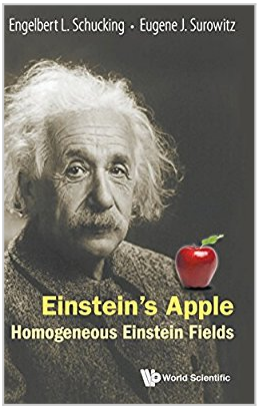

Einstein's Apple: Homogeneous Einstein Fields

By Engelbert L Schucking, Eugene J Surowitz

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We lift a veil of obscurity from a branch of mathematical physics in a straightforward manner that can be understood by motivated and prepared undergraduate students as well as graduate students specializing in relativity. Our book on "Einstein Fields" clarifies Einstein's very first principle of equivalence (1907) that is the basis of his theory of gravitation. This requires the exploration of homogeneous Riemannian manifolds, a program that was suggested by Elie Cartan in "Riemannian Geometry in an Orthogonal Frame," a 2001 World Scientific publication.

Einstein's first principle of equivalence, the key to his General Relativity, interprets homogeneous fields of acceleration as gravitational fields. The general theory of these "Einstein Fields" is given for the first time in our monograph and has never been treated in such exhaustive detail. This study has yielded significant new insights to Einstein's theory. The volume is heavily illustrated and is accessible to well-prepared undergraduate and graduate students as well as the professional physics community.

Readership: Physics graduates, physicists, mathematicians, people interested in Einstein.

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Editorial Review

From the Inside Flap
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