



# Relativity, Groups, Particles: Special Relativity and Relativistic Symmetry in Field and Particle Physics

*Roman U. Sexl, Helmuth K. Urbantke*

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## **Relativity, Groups, Particles: Special Relativity and Relativistic Symmetry in Field and Particle Physics** Roman U. Sexl, Helmuth K. Urbantke

This textbook bridges the gap between the level of introductory courses on mechanics and electrodynamics and the level of application in high energy physics and quantum field theory. After explaining the postulates that lead to the Lorentz transformation and after going through the main points special relativity has to make in classical mechanics and electrodynamics, the authors gradually lead the reader up to a more abstract point of view on relativistic symmetry - illustrated by physical examples - until finally motivating and developing Wigner's classification of the unitary irreducible representations of the inhomogeneous Lorentz group. Numerous historical and mathematical asides contribute to the conceptual clarification.

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