

Superstrings: The First 15 Years of Superstring Theory, Volumes 1 & 2

By John H. Schwarz

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The discovery by Green and Schwarz in 1984 that ten-dimensional superstring theory is anomaly-free and finite only if the Yang-Mills gauge group is SO(32) or E8 x E8 has made the phenomenological possibilities of superstrings evident. Ths has resulted in a sudden surge of interest in superstrings unification. Since this fast-developing field is new to almost all theoretical physicist, this collection of basic pre-1985 references should be very valuable. This two volumes contain over 1000 pages of reprints plus some introductory comments by J Schwarz.Contents: "Volume 1: "Review of Bosonic StringsThe Original PapersNo-ghost Theorems and Determination of D=10Fermion-Emission Vertex and Fermion-Fermion ScatteringTransition from Hadrons to Elementary ParticlesWorld-sheet Supersymmetry, Space-time SupersymmetryDevelopment of Superstring FormalismReview Papers"Volume 2: "Field Theory of StringsSuperstring Field TheoryAnomaly and Infinity CancellationsPhenomenology BeginsReadership: Upper level undergraduates, graduate students, lecturers and researchers in theoretical physics, mathematical physics and superstring theory.

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