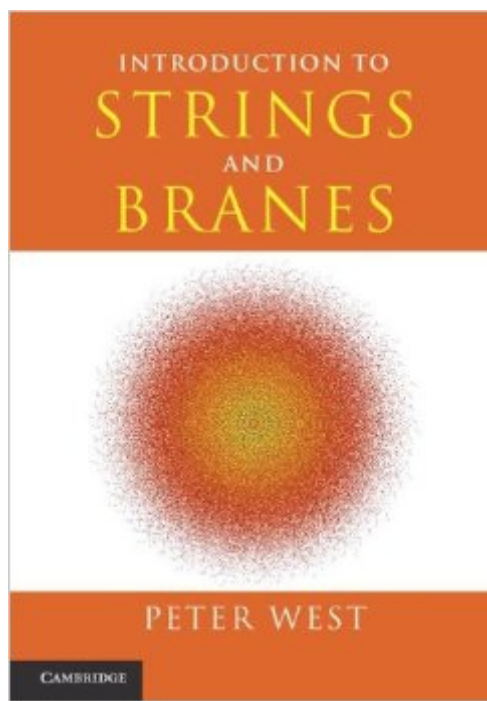


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# Introduction To Strings And Branes



## Synopsis

Supersymmetry, strings and branes are believed to be the essential ingredients in a single unified consistent theory of physics. This book gives a detailed, step-by-step introduction to the theoretical foundations required for research in strings and branes. After a study of the different formulations of the bosonic and supersymmetric point particles, the classical and quantum bosonic and supersymmetric string theories are presented. This book includes accounts of brane dynamics and D-branes and the T, S and U duality symmetries of string theory. The historical derivation of string theory is given as well as the sum over the world-sheet approach to the interacting string. More advanced topics include string field theory and Kac-Moody symmetries. The book contains pedagogical accounts of conformal quantum field theory, supergravity theories, Clifford algebras and spinors, and Lie algebras. It is essential reading for graduate students and researchers wanting to learn strings and branes.

## Book Information

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## Customer Reviews

Some theoretical physicists have what they see as an exciting new "theory of everything," string theory, that they feel will unify two seemingly diametrically opposed theories, quantum mechanics and general relativity. The theory of everything must unify nature's fundamental forces (gravitational, electromagnetic, and nuclear). Stephen Hawking is very interested in string theory. Gianguido Dall'Agata will be discussing the discovery of the SO(8) gauged theories of supergravity at King's College this month. This discussion has yet to take place and therefore is not a factor in this introductory book on strings and branes. West in his discussion of string interactions, ultimately

concludes that "One of the unusual aspects of string theory is that the theory used to calculate string scattering is often more complicated than the result itself, namely the the string scattering amplitudes." Throughout the book mathematical models are used to illustrate physics equations and formulae. Supersymmetric theories not discussed in the book can be found in West's complimentary book, Introduction to Supersymmetry and Supergravity. Additionally, topics not discussed in this book are Calabi-Yau Compactification (differential geometry required here), string-based black hole entropy computations and the AdS-CFT duality.

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