



Introduction to Strings and Branes

By Peter West

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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.

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Editorial Review

Review

"This single-volume new textbook on string theory will provide a solid and broad foundation to those who aspire to learn essential physical aspects on string theory with efficiency and depth. It is refreshing to see that this textbook contains lots of material which rarely appears in other string theory textbooks. This textbook is very helpful and pedagogical and it is strongly recommended for individuals and coursework."

Jihye Seo, Mathematical Reviews

About the Author

Peter West is a Professor at King's College London. He is a pioneer in the development of supersymmetry and its application to strings and branes.

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