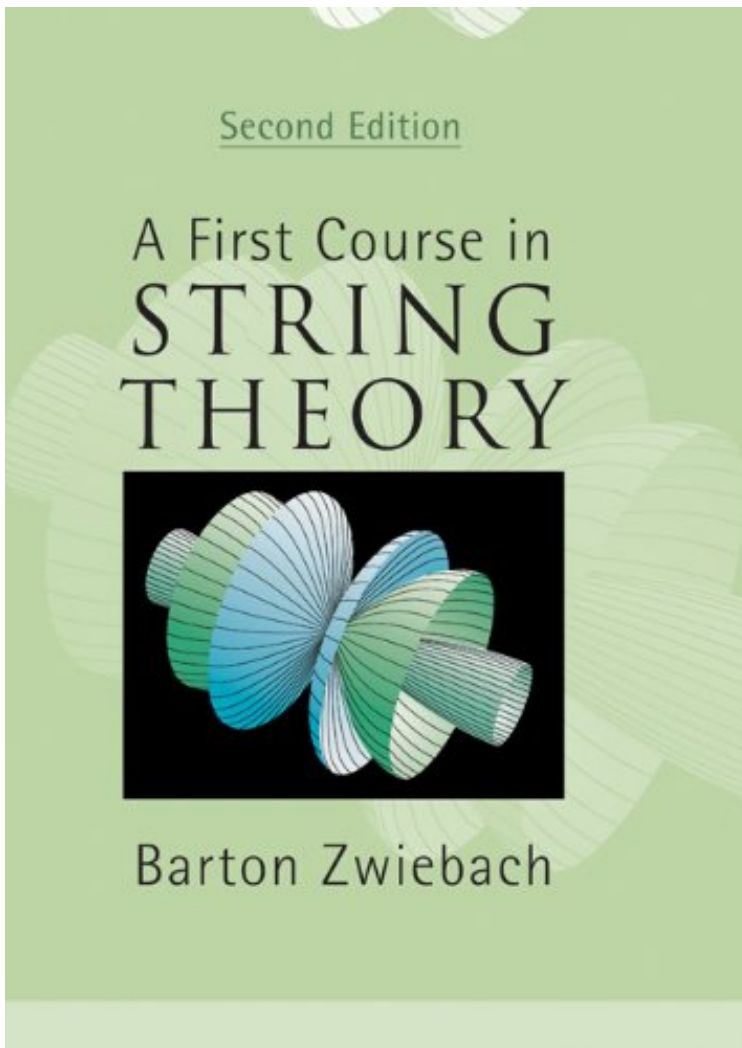


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# A First Course in String Theory



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## Description :

Prsentation de l'diteurString theory made understandable. Barton Zwiebach is once again faithful to his goal of making string theory accessible to undergraduates. He presents the main concepts of string theory in a concrete and physical way to develop intuition before formalism, often through simplified and illustrative examples. Complete and thorough in its coverage, this new edition now includes AdS/CFT correspondence and introduces superstrings. It is perfectly suited to introductory courses in string theory for students with a background in mathematics and physics. New sections cover strings on orbifolds, cosmic strings, moduli stabilization, and the string theory landscape. Now with almost 300 problems and exercises, with password-protected solutions for instructors at [www.cambridge.org/zwiebach](http://www.cambridge.org/zwiebach).Revue de presse'A refreshingly different approach to string theory that requires remarkably little previous knowledge of quantum theory or relativity. This highlights fundamental features of the theory that make it so radically different from theories based on point-like particles. This book makes the subject amenable to undergraduates but it will also appeal greatly

to beginning researchers who may be overwhelmed by the standard textbooks.' Michael Green, University of Cambridge 'Barton Zwiebach has written a careful and thorough introduction to string theory that is suitable for a full-year course at the advanced undergraduate level. There has been much demand for a book about string theory at this level, and this one should go a long way towards meeting that demand.' John Schwarz, California Institute of Technology 'There is a great curiosity about string theory, not only among physics undergraduates but also among professional scientists outside of the field. This audience needs a text that goes much further than the popular accounts but without the full technical detail of a graduate text. Zwiebach's book meets this need in a clear and accessible manner. It is well-grounded in familiar physical concepts, and proceeds through some of the most timely and exciting aspects of the subject.' Joseph Polchinski, University of California, Santa Barbara 'Zwiebach, a respected researcher in the field and a much beloved teacher at MIT, is truly faithful to his goal of making string theory accessible to advanced undergraduates the text develops intuition before formalism, usually through simplified and illustrative examples Zwiebach avoids the temptation of including topics that would weigh the book down and make many students rush it back to the shelf and quit the course.' Physics Today 'well-written takes us through the hottest topics in string theory research, requiring only a solid background in mechanics and some basic quantum mechanics. This is not just one more text in the ever-growing canon of popular books on string theory ' The Times Higher Education Supplement' the book provides an excellent basis for an introductory course on string theory and is well-suited for self-study by graduate students or any physicist who wants to learn the basics of string theory.' Zentralblatt MATH' excellent introduction by Zwiebach aimed at advanced undergraduates who have some background in quantum mechanics and special relativity, but have not necessarily mastered quantum field theory and general relativity yet the book is a very thorough introduction to the subject Equipped with this background, the reader can safely start to tackle the books by Green, Schwarz and Witten and by Polchinski.' Marcel L. Vonk, Mathematical s ClippingsPrsentation de l'diteurString theory made understandable. Barton Zwiebach is once again faithful to his goal of making string theory accessible to undergraduates. He presents the main concepts of string theory in a concrete and physical way to develop intuition before formalism, often through simplified and illustrative examples. Complete and thorough in its coverage, this new edition now includes AdS/CFT correspondence and introduces superstrings. It is perfectly suited to introductory courses in string theory for students with a background in mathematics and physics. New sections cover strings on orbifolds, cosmic strings, moduli stabilization, and the string theory landscape. Now with almost 300 problems and exercises, with password-protected solutions for instructors at [www.cambridge.org/zwiebach](http://www.cambridge.org/zwiebach).