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13   ISBN   9787510005121

10   ISBN   7510005124

        2009-8

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The strong interest with which these lectures on supersymmetry and supergravity were received at Princeton University encouraged me tomake their contents accessible to a larger audience. They are not a sys-tematic review of the subject. Instead they offer an introduction to theapproach followed by Bruno Zumino and myself in our attempt todevelop and understand the structure of supersymmetry and supergravity. This book consists of two parts. The first develops a formalism whichallows us to construct supersymmetric gauge theories. The second partextends this formalism to local supersymmetry transformations. At the end of each chapter two papers are cited which I recommendto the reader. I am aware that this selection does not do justice to manyauthors who have contributed to the subject. However I would like todraw attention to the more complete lists of references found in P. Fayetand S. Ferrara Supersymrnetry Physics Reports 32C No. 5 1977 andP. Van Nieuwenhuizen Supergravity Physics Reports 68C No. 4 1981. Throughout the text important equations are numbered in boldface.They are collected at the end of each chapter. Exercises are also includedalong with each chapter; many of them contain information essential toa deeper understanding of the subject. This book was prepared in collaboration with Jonathan Bagger withoutwhom it would never have been written. Both Jon and I would like tothank Winnie Waring for her devoted assistance in the preparation of themanuscript. As a tribute to her high standards we have tried our bestto avoid errors in factors and signs. Many people have helped eliminatethese errors. In particular we would like to thank Martin Muller forhis assistance with the second half of the book.

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