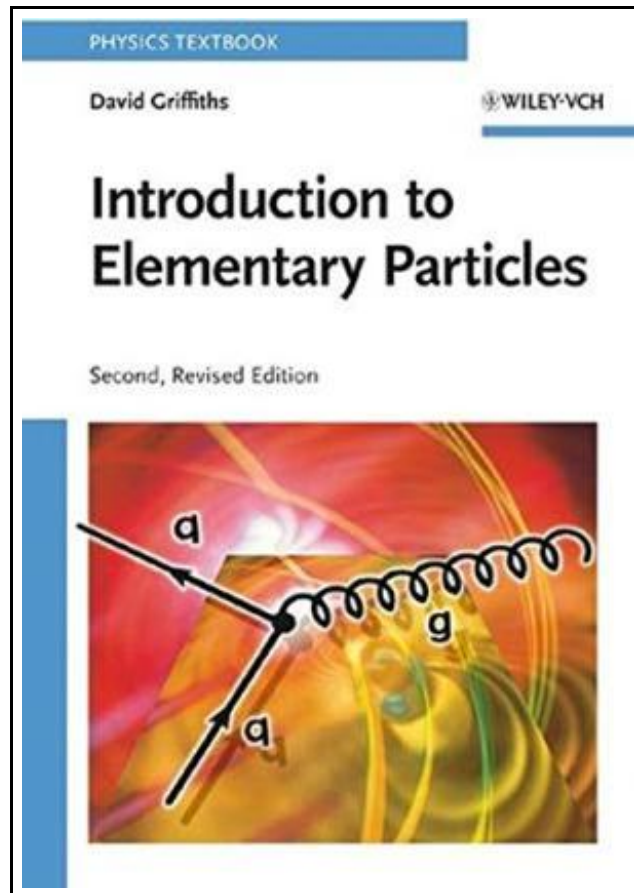


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Reviews

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INTRODUCTION TO ELEMENTARY PARTICLES



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Wiley VCH Verlag GmbH Aug 2008, 2008. Taschenbuch. Book Condition: Neu. 244x173x25 mm. Neuware - Die Elementarteilchenphysik ist auf der ganzen Welt ein fester Bestandteil im Curriculum des Physikstudiums. Umso wichtiger ist es daher, dass auf diesem Gebiet bereits in den ersten Semestern ein solides Wissensfundament gelegt wird - nicht zuletzt als Vorbereitung auf die Themenbereiche Hochenergie- oder Kernphysik. In diesen Band ist die gesamte Lehrerfahrung von David Griffiths eingeflossen - eine begehrte 'Ware', die in der Neuauflage nun auch ein Lösungsmanual präsentiert, das die zahlreichen Aufgaben und Fragen der Kapitelenden aufnimmt. Der Autor versteht es, sich den Themen in einer lebendigen Sprache zu nähern, die jedoch im Hinblick auf Präzision keine Kompromisse eingeht. So eröffnet der Band den Zugang zu den Theorien ebenso wie zu Modellen und Rechenoperationen. Das Werk wird von vielen Lehrenden empfohlen und kann bereits jetzt als Klassiker innerhalb der einführenden Werke zur Elementarteilchenphysik bezeichnet werden. In the second, revised edition of a well-established textbook, the author strikes a balance between quantitative rigor and intuitive understanding, using a lively, informal style. The first chapter provides a detailed historical introduction to the subject, while subsequent chapters offer a quantitative presentation of the Standard Model. A simplified introduction to the Feynman rules, based on a 'toy' model, helps readers learn the calculational techniques without the complications of spin. It is followed by accessible treatments of quantum electrodynamics, the strong and weak interactions, and gauge theories. New chapters address neutrino oscillations and prospects for physics beyond the Standard Model. The book contains a number of worked examples and many end-of-chapter problems. A complete solution manual is available for instructors. 454 pp. Englisch.



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