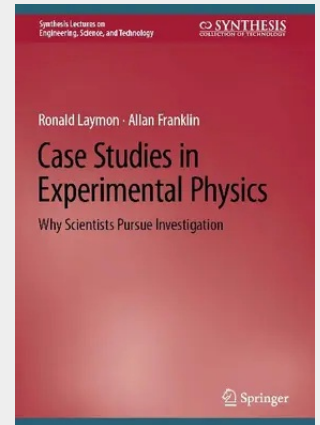


Case Studies in Experimental Physics

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This book addresses the pursuit and further investigation of experimental results by analyzing classic examples from physics. The authors concentrate on the investigation of experimental results by examining case studies from the history of 20 and 21 century physics. Discussions on the discovery of parity nonconservation, the rise and fall of the Fifth Force, the search for neutrinoless double β decay, supersymmetry and the expansion of the Standard Model, and measurements of the anomalous magnetic moment of the muons are provided. Experimental results may achieve acceptance to the point that even well known principles, such as conservation of energy and quantization, lose their status as accepted. Such principles and their options are treated on an equal footing as being pursuit worthy even though there is no plausible explanation as to why and how they might have failed.

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85,59 €

79,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783031126079

Medium: Buch

ISBN: 978-3-031-12607-9

Verlag: Palgrave Macmillan

Erscheinungstermin: 25.09.2022

Sprache(n): Englisch

Auflage: 1. Auflage 2022

Serie: Synthesis Lectures on Engineering, Science, and Technology

Produktform: Gebunden

Gewicht: 456 g

Seiten: 151

Format (B x H): 173 x 246 mm

