



Renormalization Theory: Proceedings of the NATO Advanced Study Institute held at the International School of Mathematical Physics at the Ettore Majorana Centre for Scientific Culture in Erice (Sicily) Italy, 17-31 August, 1975 (Paperback)

By -

Springer, Netherlands, 2011. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The present volume collects lecture notes from the session of the International School of Mathematical Physics Ettore Majorana on Renormalization Theory that took place in Erice (Sicily), August 17 to August 31, 1975. The School was a NATO Advanced Study Institute sponsored by the Italian Ministry of Public Education, the Italian Ministry of Scientific and Technological Research, and the Regional Sicilian Government. Renormalization theory has, by now, acquired forty years of history. The present volume assumes a general acquaintance with the elementary facts of the subject as they might appear in an introductory course in quantum field theory. For more recent significant developments it provides a systematic introduction as well as a detailed discussion of the existing state of knowledge. In particular analytic and dimensional renormalization, normal product technique, and the Bogoliubov-Shirkov-Epstein-Glaser method are treated, with applications to physically important gauge theories. All the preceding deals with perturbative renormalization theory. In recent years there has been an interesting development of non-perturbative renormalization theory in models in space-times of two and three dimensions, with the use of the methods of constructive...



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