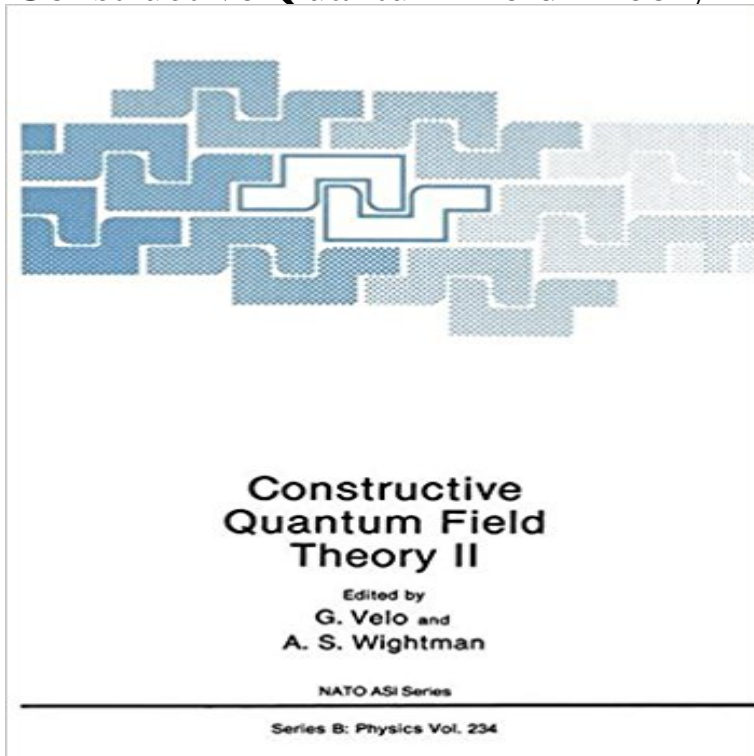


Constructive Quantum Field Theory II (Nato Science Series B:) (v. 2)



The seventh Ettore Majorana International School of Mathematical Physics was held at the Centro della Cultura Scientifica Erice, Sicily, 1-15 July 1988. The present volume collects lecture notes on the session which was entitled Constructive Quantum Field Theory II. The II refers to the fact that the first such school in 1973 was devoted to the same subject. The school was a NATO Advanced Study Institute sponsored by the Italian Ministry of Scientific and Technological Research and the Regional Sicilian Government. At the time of the 1973 Erice School on Constructive Field Theory, the speakers could summarize a decade of effort on the solution of superrenormalizable models in two dimensional space-time leading to the verification of the axioms of relativistic quantum field theory for these examples. The resulting lecture notes have proved to be exceptionally useful and are still in print. In the decade and a half that have elapsed since that time, there has been much hard work with the ultimate objective of providing a rigorous mathematical foundation for the quantum field theories in four dimensional space-time that summarize a large fraction of our current understanding of elementary particle physics: QCD and the electroweak theory. The lecture notes of the 1988 school record the fact that, although this objective has not been reached, important progress has been made. The ultraviolet stability of Yang-Mills theory in four dimensions has been treated and renormalizable (not superrenormalizable) models in two dimensional space-time, Gross-Neveu models, have been solved.

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