# Lectures on Elementary Particles and Quantum Field Theory



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Every summer since 1959, Brandeis University has conducted a lecture series centered on various areas of theoretical physics. The areas are sufficiently broad to interest a large number of physicists and the lecturers are among the original explorers of these areas. The four lecturers of Volume 1, and the range of the topics they cover, are as follows:Stephen L. Adler (Institute for Advanced Study) on "Perturbation Theory Anomalies": introduction and review of perturbation theory; the VVA triangle anomaly; absence of radiative corrections; generalizations of our results; connection between Ward identity anomalies and commutator (Bjorken-limit) anomalies; applications of the Bjorken limit; and breakdown of the Bjorken limit in pesturbation theory.Stanley Mandelstam (University of California at Berkeley) on "Dynamical Applications of the Veneziano formula for the four-point scalar amplitute; factorization; the operator formalism; Veneziano-type quark models; and higher-order Feynman-like diagrams.Steven Weinberg (Massachusetts Institute of Technology) on "Dynamic and Algebraic Symmetries": Introduction; hadron electrodynamics; local symmetries; and chirality.Wolfhart Zimmermann (New York University) on "Local Operator Products and Renormalization in Quantum Field Theory": introduction; renormalization; operator product expansions; and local field equations. The second volume contains lectures by Rudolf Haag on observables and fields, by Maurice Jacob on duality, by Michael Reed on non-Fock representations, and by Bruno Zumino on effective Lagrangians and broken symmetries.

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# 书评

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