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Titolo	Advanced Methods in the Evaluation of Nuclear Scattering Data [[electronic resource]] : Proceedings of the International Workshop Held at the Hahn-Meitner-Institut für Kernforschung Berlin, June 18–20, 1985 / / edited by Hans J. Krappe, Reinhard Lipperheide, Institut für Kernphysik
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Descrizione fisica	1 online resource (VI, 368 p. 9 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 236
Disciplina	530.8
Soggetti	Physical measurements Measurement Measurement Science and Instrumentation
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Nota di contenuto	to ill-posed aspects of nuclear scattering -- Ill-posed nature of inverse problems and their regularization (stability — estimates) -- Statistical regularization -- The Bayesian approach to the analysis of scattering data -- Linear and nonlinear least squares computing -- The maximum entropy method -- Planning and evaluation of neutron diffraction experiments based on statistical considerations -- Jet analysis in electron-positron annihilation experiments -- Model independent densities from electron scattering -- Model-independent DWBA- analysis of inelastic electron scattering data -- Partial wave analyses of elastic meson-nucleon scattering -- Low energy proton-proton phase shift analysis -- Optimal polynomial expansions in the nucleon- nucleon phase shift analysis -- Phase-shift analysis in heavy-ion scattering -- Amplitude reconstruction in charged particles scattering -- Resonances and surface waves in nuclear and particle physics -- The regularization method in heavy-ion optical-potential analyses -- Determination of nuclear optical potentials by inversion -- Comparison of model-independent optical potential analyses -- Inversion as a means of understanding nuclear potentials -- Model-independent vs.

model-dependent potentials for low energy $\bar{p}$ and n scattering by nuclei -- Impact of Fourier-Bessel analyses on studies of composite particle scattering -- Fourier-Bessel analysis of polarized deuteron scattering -- Modeling direct reactions -- Summary Talk on Advanced methods in the evaluation of nuclear scattering data.
