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Titolo	Dynamics of Nuclear Fission and Related Collective Phenomena [[electronic resource]] : Proceedings of the International Symposium on "Nuclear Fission and Related Collective Phenomena and Properties of Heavy Nuclei", Bad Honnef, Germany, October 26–29, 1981 / / edited by P. David, T. Mayer-Kuckuk, A. van der Woude
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Nota di contenuto	Cold rearrangement of nucleons in fission and fusion -- Fast and slow fission -- Cold fragmentation of ^{234}U and ^{236}U -- A combinatorial analysis of pair-breaking in fission -- Muon-induced fission -- Study of muon-induced fission with the photoemulsion-method -- Self-consistent microscopic description of fission the scission mechanism -- The lowest γ -vibrational phonon in the second minimum of $^{236,238}\text{U}$ -- ^{232}Th fission barrier characteristics from the $^{232}\text{Th}(p,p'\gamma)$ reaction -- ^{232}Th subthreshold photofission angular distributions -- Asymmetrically deformed states of $^{231,233}\text{Th}$ during the fission process -- High resolution energy measurement in (d,pf) reactions -- Angular distribution and total kinetic energy for $^{232}\text{Th}(n,f)$ -- Study of energy dissipation in ^{234}U fission from the $^{233}\text{U}(d,pf)$ reaction -- Structure of the mass distribution of the fission fragments of ^3He induced fission of ^{169}Tm -- The cosi fan tutte project -- Entrance channel properties of (d,pf) reactions on ^{232}Th and ^{238}U -- Energy dissipation / Nuclear shell effects in fission -- Pair excitations in low

energy fission -- On the semiclassical description of adiabatic nuclear motion -- Identification of a shape isomeric band in ^{32}S -- Spin-isospin modes in electron scattering and charge exchange reactions -- Distribution of the isoscalar giant quadrupole resonance strength in ^{208}Pb -- Splitting and broadening of giant resonances in uranium due to deformation -- Fission decay as a measure of statistical equilibration of coherent collective modes -- Excitation and fission decay of new isoscalar giant resonances -- Investigation of the fission decay of the GQR in ^{238}U by e^- - and e^+ -induced fission, and tests of DWBA virtual photon spectra -- Study of the E2 strength distribution in ^{238}U by $(e, e'\gamma)$ coincidence experiments -- Decay of the giant quadrupole resonance region in ^{208}Pb -- Experimental evidence for giant multipole resonances at high excitation energies -- Isotopic effect on giant resonances -- Spin-flip probability as a tool to determine nuclear shapes -- Large rearrangement of masses in collisions between heavy nuclei -- Statistical and dynamical aspects of heavy-ion collisions -- Nuclear compressibility and high-energy nucleus-nucleus collisions -- Linear momentum transfer, fission and light particle emission in ^{12}C induced reactions at 30, 60 and 84 MeV/u -- Momentum transfer in light ion-induced fission -- The influence of shell effects on the survival probability of heavy nuclei produced in fusion reactions -- Fission and evaporation in 300 MEV ^{35}Cl induced reactions -- Fusion near the barrier in the system $^{132}\text{Xe} + \text{natFe}$ -- ^{12}C induced reactions at 84 MeV/u -- Statistical fluctuations in heavy ion collisions -- Cooperative nuclear reactions - Pionic and radiative fusion - -- Coherent π -production in subthreshold nucleus-nucleus collisions -- Elementary building stones of matter and collective phenomena.
