



Structure of Atomic Nuclei / Bau der Atomkerne

By S. Flügge

Springer-Verlag GmbH Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 244x169x35 mm. Neuware - 243 number n and orbital angular momentum 1, but also a total angular momentum $1 f = 1 \pm !$ This modification lead to striking successes for the model. Almost without exception, the ground state spins of odd nuclei were found to be correctly predicted. Furthermore several other features of nuclei such as the occurrence of isomeric states and the values of magnetic dipole moments were explained, at least qualitatively. However the model completely failed to explain the large values of observed electric quadrupole moments and certain regularities in nuclear spectra, especially of rare earth nuclei. 4. 1950-1953. The emphatic success of the shell-model modified by a spin orbit force gave the necessary confidence and incentive to physicists to apply the model in detail to individual nuclei. Guided by parallel calculations in atomic spectroscopy, considerable effort was devoted to computing spectra of levels of nuclear systems with the so-called 'Intermediate Coupling Model' in which the independent particle motion is considered to be perturbed by central particle particle interactions and spin-orbit forces. Computational labour restricts such calculations to nuclei near closed shells, say within four particles...



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