

## **PREFACE TO THE REISSUE OF *NUCLEAR STRUCTURE* (VOLUMES I AND II)**

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Many of our colleagues have called our attention to an apparent need for access to the present volumes, which have been out of print for some time. Especially they have had in mind younger scientists entering nuclear physics as well as other areas such as the structure of mesoscopic systems in which the generality of concepts from nuclear structure has manifested itself. We therefore welcomed the interest expressed by World Scientific Publishing Company in a reissue of the work.

Since the first edition published in 1969 (Vol I) and 1975 (Vol II), there has, of course, been an enormous development in the field of nuclear physics based on the refinement of the experimental arts. The field has expanded in so many directions, in connection with the increase in accessible energy, angular momentum, and nuclear species, and the new phenomena, which have been revealed, have stimulated conceptual developments concerning the significant degrees of freedom and their interplay in nuclear dynamics. Thus, in connection with the reissue of the original text, we have considered the possibility of adding material covering these developments. However, we quickly recognized that it would be impossible for us to provide an assessment of this vastly expanded subject with anything like the degree of comprehensiveness aimed at in the original text. At the same time, this text continues to describe the basis for the understanding of nuclear structure as we see it today, and, therefore, we feel it the

most appropriate to reissue the text in its original form. It is our hope that such a reissue may contribute to the basis for the exploration and digestion of current developments in a wide field.

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*Copenhagen, 1997*