
Contents

Part II. EXPERIMENTS AND THEORY

Section V. Experiments and Theory

V.A.	Neutron Total Cross Section Measurements <i>By D. W. Miller</i>	985
V.B.	Angular Distributions of Elastically Scattered Neutrons <i>By Martin Wall</i>	1033
V.C.	Optical Model Theory of Neutron Scattering and Reactions <i>By W. S. Emmerich</i>	1057
V.D.	Direct Reaction Theories <i>By N. Austern</i>	1113
V.E.	Resonance Processes with Fast Neutrons <i>By L. C. Biedenharn, E. Baumgartner, P. Huber, and H. B. Willard</i>	1217
V.F.	The Theory of Polarization in Reactions and Scattering <i>By T. A. Welton</i>	1317
V.G.	Polarization of Neutrons in Reactions and Scattering <i>By W. Haeberli</i>	1379
V.H.	Neutron Nonelastic Collision Cross Sections <i>By R. C. Allen, R. E. Carter, and H. Lyndon Taylor</i>	1429
V.I.	Excitation Functions for Neutron Inelastic Scattering <i>By J. B. Guernsey and D. A. Lind</i>	1483
V.J.	Statistical Model Theory of Neutron Reactions and Scattering <i>By H. Goldstein</i>	1525
V.K.	Gamma Radiation from Neutron Inelastic Scattering <i>By J. M. Freeman</i>	1559
V.L.	Neutron Cross Sections in the keV Region <i>By H. W. Newson and J. H. Gibbons</i>	1601
V.M.	Fast Neutron Capture Cross Sections <i>By A. G. W. Cameron, N. H. Lazar, and H. W. Schmitt</i>	1699
V.N.	Neutron Induced Reactions <i>By F. L. Ribe</i>	1775
V.O.	Neutron Threshold Measurements <i>By J. B. Marion and T. W. Bonner</i>	1865
V.P.	Neutron Spectroscopy <i>By J. M. Calvert and A. A. Jaffe</i>	1907
V.Q.	Coincidence Studies <i>By G. C. Neilson, J. T. Sample, and J. B. Warren</i>	1953

V.R.	Fission by Fast Neutrons <i>By R. L. Henkel</i>	2001
V.S.	Channel Analysis of Fission <i>By J. A. Wheeler</i>	2051
V.T.	The n - p Total and Differential Cross Sections in the Energy Range 0 to 40 Mev <i>By J. L. Gammel</i>	2185
<i>Appendix I.</i>		
	Nomenclature Scheme for Experimental Monoenergetic Nuclear Cross Sections <i>By H. Goldstein</i>	2227
<i>Appendix II.</i>		
	Recent Developments in Neutron Detection <i>By F. W. K. Firk</i>	2237
	<i>Cumulative Index</i>	2249