

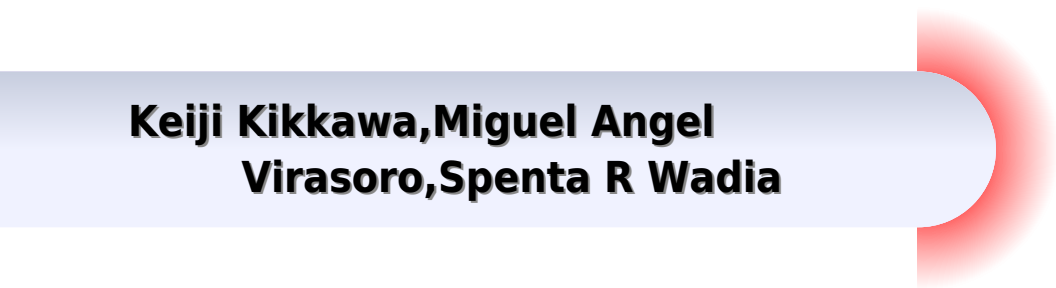
SPECTROSCOPY WITH COHERENT RADIATION

**Selected Papers of Norman F. Ramsey
with Commentary**

NORMAN F. RAMSEY

Spectroscopy With Coherent Radiation Selected Papers Of Norman F Ramsey

**Keiji Kikkawa, Miguel Angel
Virasoro, Spenta R Wadia**



Spectroscopy With Coherent Radiation Selected Papers Of Norman F Ramsey:

Spectroscopy with Coherent Radiation N. F. Ramsey, 1998 This invaluable volume contains a biography of Nobel laureate Norman F Ramsey as well as reprints and retrospective commentaries on 56 papers relating to spectroscopy with coherent radiation The earliest papers describe his work with I I Rabi developing the then new magnetic resonance method and its uses to measure magnetic moments of the different forms of hydrogen and to discover the deuteron electric quadrupole moment Later papers include his invention of the method of coherent separated oscillatory fields the development of the atomic hydrogen maser and the uses of these methods to measure properties of nucleons nuclei atoms and molecules and to test parity and time reversal symmetries Other papers present the first successful theories of nuclear magnetic shielding NMR chemical shifts electron coupled nuclear spin spin interactions and negative absolute temperatures

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Selected Papers of Kun Huang Bang-fen Zhu, 2000 Professor Kun Huang is widely known for his collaboration with Max Born in writing the classic monograph *Dynamical Theory of Crystal Lattices* During his years of active research he has made important contributions to solid state physics This collection of papers is selected at his own choice as representing his most influential works Included is his work on the interaction of radiation field with polar lattices and the resulting coupled vibration modes later known as polariton the systematic development of his

theory of radiative and nonradiative multiphonon transition processes associated with lattice relaxation his early prediction of diffuse X ray scattering due to crystal defects and his research works on low dimensional semiconductor structures and more Professor Huang has found by his experience that scientists interested in these papers often want to know more particulars underlying the research work such as background motivation and rationale involved Thus he was led to write a commentary which is published alongside the papers Selected Papers, 1945-1980, with Commentary Chen Ning Yang, 2005 A remarkable personal and professional chronicle by one of today's leading physicists this is a collection of Chen Ning Yang's personally selected papers supplemented by his insightful commentaries Including previously unpublished or hard to find works this volume contains Yang's important papers on statistical physics nuclear forces and particle physics Among them are his seminal work with T D Lee on the nonconservation of parity for which they won the Nobel Prize and his work with R L Mills which led to modern gauge theories with their exciting prospects for the broad unification of field theories The commentaries were written especially for this volume and provide a fascinating account of Yang's development as a physicist as well as a look at many important physicists of the 20th century They trace the development of Yang's interests and ideas from his graduate school days to the present showing how he worked with his colleagues and how their physics came into being Together the papers and commentaries in this unique collection comprise a powerful personal statement shedding light on both the intellectual development of a great physicist and on the nature of scientific inquiry

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This invaluable book presents most of the important papers of Emil Wolf published over half a century. It covers chiefly diffraction theory especially the analysis of the focal region the theory of direct and inverse scattering phase space methods in quantum mechanics the foundation of radiometry phase conjugation and coherence theory. Several papers which have become classics of the optical literature are included such as those on Wolf's rigorous formulation of the theory of partial coherence and partial polarization the introduction of diffraction tomography and his discovery of correlation induced shifts of spectral lines often called the Wolf effect. There are also papers dealing with the historical development of optics and some review articles.

Contents: Diffraction Radiation Theory and String Excitations Coherence and Statistical Optics Scattering Foundations of Radiometry Articles of Historical Interest Analyticity Causality and Dispersion Relations Scientists Who Created the World of Optics The Development of Optical Coherence Theory Recollections Commencement Remarks Publications of Emil Wolf Readership: Physicists and engineers particularly optical scientists and optical engineers.

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