



ADVANCES IN ATOMIC AND MOLECULAR PHYSICS

Volume 21

Sir David Bates &
Benjamin Bederson

Advances In Atomic And Molecular Physics Vol 21

LP Steffe



Advances In Atomic And Molecular Physics Vol 21:

Nuclear Science Abstracts ,1967 **Progress in Optics** ,1992-06-26 Confirming the fact that optics continues to be a highly active field of research where many interesting developments are currently taking place the latest volume in this renowned series presents five review articles by well known experts on topics of current interest in optics The first article concerns quantum fluctuations a phenomenon encountered directly or indirectly in all optical measurements Such fluctuations set limits to attainable accuracy with which measurements can be made In recent years theoretical as well as experimental research has demonstrated that limitations arising from quantum fluctuations can sometimes be circumvented to some extent These developments are of importance from the standpoint of basic physics as well as in connection with technological applications such as noise reduction in communication systems The second article deals with correlation holographic interferometry and speckle photography paying special attention to the effects of random variation of surface microstructure on the contrast of interference fringes The article which follows covers an important subject in the broad area of wave propagation in random media namely wave localization This phenomenon is a subtle manifestation of interference of multiply scattered waves and provides information about important properties of disordered systems The article considers mainly localization in one dimensional systems which elucidate some of the underlying physics The fourth article discusses an important nonlinear phenomenon namely soliton propagation in fibres Solitons are pulses which can propagate over long distances without change in shape Because of their considerable stability they are of particular interest for communication systems The concluding article presents the theory and describes experiments on elementary quantum systems in the context of cavity quantum optics Such experiments are providing deeper understanding of the interaction of light with matter and give new insights into the foundations of quantum mechanics *Bibliography of Atomic and Molecular Processes* ,1985

Books in Print ,1994 **Advances in Atomic and Molecular Physics** ,2014-05-14 Advances in Atomic and Molecular Physics **Atomic Physics 10** Hajime Narumi,Isao Shimamura,1987 Atomic Physics 10 presents the manuscripts of the invited talks delivered at the ICAP X The conference continued the tradition of the earlier conferences by reviewing broad areas of fundamental atomic physics and related subjects In addition to the invited talks two hundred and fifty four contributed papers were presented in two poster sessions The conference was attended by three hundred and thirty participants from twenty countries and the topics covered include fundamental atomic physics including QED parity violation and quark physics exotic atoms electronic structure of atoms and the dynamics associated with advanced laser spectroscopy applied and interdisciplinary fields using synchrotron radiation spectroscopy atomic processes in hot plasmas and interstellar space the quantum Hall effect in solids *Books in Print Supplement* ,1994 *Advances In Atomic And Molecular Physics [Vol 1-10, 12]*. DR Bates (ed),1965 *Methods of Laser Spectroscopy* Yehiam Prior,Abraham Ben-Reuven,Michael Rosenbluh,2012-12-06 The Fritz Haber Symposium on Methods of Laser Spectroscopy was held in Ein Bokek Israel on the

shores of the Dead Sea on December 16 20 1985 The location is the lowest place on earth 392 meters below sea level It was hoped that 120 active laser scientists so lowly trapped in such a place with the nearest entertainment 100 km away will have no choice but to discuss laser spectroscopy On the average the Dead Sea area receives 3 4 days of rain each year and this year these days all occurred during the conference This did not mean the cancellation of the hikes although the trip to Massada was conducted in the rain The unexpected rains also caused flash floods in the area and Ein Bokek was completely cut off on Thursday night The archeologist scheduled to speak after dinner and the belly dancer scheduled to appear afterwards could not arrive resulting in the only serious deviation from the original plan The scientific program consisted of invited talks and contributed posters The emphasis in selection of invited speakers and topics was on the methods rather than specific molecular systems and an attempt was made to allow ample time for discussion after each lecture The same philosophy guided us in editing this book and authors were requested to write manuscripts longer than usual for standard conference proceedings

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