



# Light Scattering and Photon Correlation Spectroscopy (Nato Science Partnership Subseries: 3)

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## Light Scattering and Photon Correlation Spectroscopy (Nato Science Partnership Subseries: 3)

Since their inception more than 2.5 years ago, photon correlation techniques for the spatial, temporal or spectral analysis of fluctuating light fields have found an ever-widening range of applications. Using detectors which respond to single quanta of the radiation field, these methods are intrinsically digital in nature and in many experimental situations offer a unique degree of accuracy and sensitivity, not only for the study of primary light sources themselves, but most particularly in the use of a laser-beam probe to study light scattering from pure fluids, macromolecular suspensions and laminar or turbulent flowing fluids and gases. Following the earliest developments in laser scattering by dilute macromolecular suspensions, in which particle sizing was the main aim, and the use of photon correlation techniques for laser-Doppler studies of flow and turbulence, both of which areas were the subject of NATO ASIs in Capri, Italy in 1983 and 1986, significant advances have been made in recent years in many other areas. These were reflected in the topics covered in this NATO Advanced Research Workshop, which took place from August 27th to 30th, 1986, at the Jagiellonian University, Krakow, Poland. These included experimental techniques, statistics and data reduction, colloids and aggregation, polymers, gels, liquid crystals and mixtures, protein solutions, critical phenomena and dense media.

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