

Light Scattering: Principles and development (Monographs on the Physics and Chemistry of Materials)



Light scattering has become a powerful and widely-used technique in colloidal and macromolecular science in the last decade. This comprehensive volume describes recent developments in light scattering and a wide spectrum of its applications. Both are traced by experts in the field. Topics include static light scattering as applied to simple liquids, polymer solutions, and multi-component polymer mixtures; the scattering theory of colloidal dispersions; scattering from rod-like polyelectrolytes; low angle light scattering; concentrated polymer systems; aggregation phenomena; polymer-polymer interactions; and polyelectrolytes in solution. Emphasis is given to more complex systems, for example, ternary polymer systems, complex micellar systems, block copolymers in the ordered and disordered states, the determination of particle size distributions, and combined chromatographic light scattering techniques.

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