



# **Optical Properties of Functional Polymers and Nano Engineering Applications (Nanotechnology and Application Series)**

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# Optical Properties of Functional Polymers and Nano Engineering Applications (Nanotechnology and Application Series)

## Optical Properties of Functional Polymers and Nano Engineering Applications (Nanotechnology and Application Series)

**Optical Properties of Functional Polymers and Nano Engineering Applications** provides a basic introduction to the optical properties of polymers, as well as a systematic overview of the latest developments in their nano engineering applications. Covering an increasingly important class of materials relevant not only in academic research but also in industry, this comprehensive text:

- Considers the advantages of the liquid gradient refractive index (L-GRIN) lenses over the conventional solid lenses
- Explores the electrochemistry of photorefractive polymers, the molecular structure of commonly used polymers, and various 3D holographic displays
- Discusses gene detection using the optical properties of conjugated polymers
- Highlights the physics of fluorescence in photoluminescent polymers, and energy and electron transfer mechanisms
- Introduces conventional polymer ion sensors based on the optical sensors of conjugated polymers prepared by click chemistry reactions
- Explains colorimetric visual detection of ions by donor–acceptor chromophores
- Describes optical sensors based on fluorescent polymers and for the detection of explosives and metal ion analytes
- Addresses holographic polymer-dispersed liquid crystal technology, its optical setups, and its applications in organic lasers
- Presents cutting-edge research on electrochromic devices, along with new concepts, prototypes, commercial products, and future prospects
- Demonstrates new techniques for creating nanoscale morphologies through self-assembly, which affect the optical properties of the functional polymers

**Optical Properties of Functional Polymers and Nano Engineering Applications** emphasizes the importance of nano engineering in improving the fundamental optical properties of the functional polymers, elaborating on high-level research while thoroughly explaining the underlying principles.

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