



Applied Optics Fundamentals and Device Applications: Nano, MOEMS, and Biotechnology

Mark A. Mentzer

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How does the field of optical engineering impact biotechnology?

Perhaps for the first time, **Applied Optics Fundamentals and Device Applications: Nano, MOEMS, and Biotechnology** answers that question directly by integrating coverage of the many disciplines and applications involved in optical engineering, and then examining their applications in nanobiotechnology. Written by a senior U.S. Army research scientist and pioneer in the field of optical engineering, this book addresses the exponential growth in materials, applications, and cross-functional relevance of the many convergent disciplines making optical engineering possible, including nanotechnology, MEMS, (MOEMS), and biotechnology.

Integrates Coverage of MOEMS, Optics, and Nanobiotechnology—and Their Market Applications

Providing an unprecedented interdisciplinary perspective of optics technology, this book describes everything from core principles and fundamental relationships, to emerging technologies and practical application of devices and systems—including fiber-optic sensors, integrated and electro-optics, and specialized military applications. The author places special emphasis on:

- Fiber sensor systems
- Electro-optics and acousto-optics
- Optical computing and signal processing
- Optical device performance
- Thin film magnetic memory
- MEMS, MOEMS, nano- and bionanotechnologies
- Optical diagnostics and imaging
- Integrated optics
- Design constraints for materials, manufacturing, and application space

Bridging the technology gaps between interrelated fields, this reference is a powerful tool for students, engineers and scientists in the electrical, chemical, mechanical, biological, aerospace, materials, and optics fields. Its value also extends to applied physicists and professionals interested in the relationships between emerging technologies and cross-disciplinary opportunities.

*Author **Mark A. Mentzer** is a pioneer in the field of optical engineering. He is a senior research scientist at the U.S. Army Research Laboratory in Maryland. Much of his current work involves extending the fields of optical engineering and solid state physics into the realm of biochemistry and molecular biology, as well as structured research in biophotonics.*

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