Polarization Engineering for LCD Projection. Wiley Series in Display Technology

Description: Liquid Crystal Display (LCD) projection technology has, in recent years, led the way in large area displays because of its potential to deliver scalable, high-resolution images at a low cost. Since large displayed images demand high brightness and contrast, a full understanding of polarization, and how to manage its effects, is essential for the development of quality systems.

Using the example of LCD projection technology, this practical text provides a thorough coverage of polarization engineering problems, with appropriate solutions and mathematical tools for analysis.

Key features:
- A comprehensive introduction to the basics of polarization, LCDs, projection technologies and LCD projection system engineering.
- A detailed examination of optical system components, including polarizers and retarder stack filters.
- A full treatment of system contrast and color management issues.
- In-depth analyses of how to manage polarization in the major LCD projection systems.

Display engineers, scientists and technicians active in this field will find this a valuable resource, as will developers of large screen projection displays and microdisplays. Also useful for graduate students and researchers as an accessible introduction to the technology.

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