

## **DISPLAY MEASUREMENT**

### **P.57: Color-Shift Evaluation in Motion Images**

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With the proliferation of LCD-TV technology, the quality of moving images is becoming an increasingly important criterion. The majority of motion-picture response-time (MPRT) measurements are being performed on gray images. A method of evaluating color image shift that correlates well with subjective observation will be described.

### **P.58: Laser Speckle of Textured Surfaces: Towards High-Performance Anti-Glare Films and Overlays**

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Today's high-resolution displays are placing an increased demand on the performance of sputtered anti-glare layers. A method of analyzing the effects of anti-glare layers on display performance using laser speckle and a CCD camera to collect the data will be demonstrated.

### **P.59: Dielectric Constants of Display Optical Components**

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A novel approach to the evaluation of the dielectric tensor of biaxial layers incorporated into a multilayer stack is introduced. The approach utilizes the reflectance and transmittance of several polarization states and angles of incidence for the Berreman approach or reflective and transmissive Mueller-matrices for the extended Jones method.

### **P.60: Novel-Display Image-Quality Analysis Based on Human-Visual Perception**

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Image-quality analysis techniques that take into account human-visual perception are introduced. Methods for dynamic contrast analysis for moving images, color aberration analysis, ghost-image assessment, and outdoor-display image-quality assessment will be reviewed. The results from these analysis methods were correlated with human-visual perception.