

Contents

v	<i>Introduction</i>
1	Active matrix liquid crystal displays for consumer products [TTS1-01] R. Borstelmann, UCE, Inc.
16	Future trends in active addressing: passive matrix displays [TTS1-02] P. E. Gulick, In Focus Systems, Inc.
21	Electroluminescent displays for office and factory automation [TTS1-03] R. T. Tuenge, Planar Systems, Inc.
49	Selection and integration of head-up and head-down displays [TTS1-04] A. M. Tai, Environmental Research Institute of Michigan
66	LEDs as indicators, illuminators, and full-color displays [TTS1-05] M. Hodapp, Hewlett-Packard, Co.
76	Digital micromirror device (DMD): a digital light processing application to projection displays [TTS1-07] G. A. Feather, Texas Instruments Inc.
98	Optical processing and pattern recognition applied to security and anticounterfeiting [TTS1-08] B. Javidi, Univ. of Connecticut
135	Diode lasers, LEDs, and detectors for consumer electronics [TTS1-09] K. J. Linden, Spire Corp.

Introduction

Technology Tutorials are designed to introduce new technologies and product types suitable for integration into commercial products and systems. Information contained in the sessions is directed toward the design engineers, marketing professionals, and the executives who decide where product development dollars will be spent.

These tutorials will provide attendees with valuable information that can be directly applied to current marketing strategies or can provide a "missing link" for products still not quite ready for market. Tutorial instructors were selected for their expertise in these leading-edge technologies.

Photonics For Consumer Electronics presents a wide range of products that are already in limited use and poised to jump into larger private and business markets. Topics range from the best use of LCDs, to lighting advances, and the use of advance photonic systems for security purposes. Of course, these sessions would be incomplete without a session on diode lasers and detectors, which are already forming a niche in such consumer market areas as CD readouts, remote heat sensors, and remote controls.

This Technology Tutorial volume provides attendees with a written reference of the information presented during the oral lectures, and is also a valuable standalone reference for those not able to attend the live sessions.