



# OLED Display Fundamentals and Applications

By Takatoshi Tsujimura



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This book covers all of the aspects necessary to the design and manufacturing of OLED displays. Topics include emission mechanism, material selection, device processing, manufacturing issues and countermeasures and display design basics. In addition, the book defines elements of OLED such as Thin Film Transistor (TFT) backplane design and processing details, including Low Temperature Poly Silicon (LTPS) process and circuit integration, and high yield method to manufacturer. Researchers and developers are aiming at making large OLED televisions and companies such as Samsung and Apple are rumored to be using OLED display for new screens. In addition to discussing the current composition of OLED, the book also covers the future for OLED technologies and displays.

The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field of information display. Complementary to the aims of the society, the Wiley-SID series is intended to explain the latest developments in information display technology at a professional level. The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics

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### Editorial Review

#### Review

“Overall however, despite a few shortcomings, this work will be a valuable and currently unique resource for anyone interested in learning about OLEDs in general and of particular interest to engineers, managers, and other industry professionals entering the field or expanding their areas of expertise.” (*Information Display*, 1 May 2012)

#### From the Back Cover

A much-needed guide to the design and manufacturing of OLED displays

Organic Light-Emitting Diode (OLED) displays are expected to replace Liquid Crystal Displays (LCDs) in the upcoming years in television screens, computer monitors, watches, mobile phones, and similar applications. *OLED Displays: Fundamentals and Applications* is the first book to offer complete, practical, up-to-date coverage of the development, manufacturing, and applications of this cutting-edge technology.

Written by a leading industry expert with over two decades in both R&D and commercialization, the book walks engineers and industry professionals through all aspects of the technology, from the basics of OLED displays to commercialization and manufacturing. Drawing on extensive firsthand experience, the author explains the fundamentals of OLED composition and function, details step by step the design and manufacturing of OLED displays, and examines important applications in lighting and display technology. He also provides real-world examples and problem-solving techniques used during product commercialization.

Geared to both experienced practitioners and newcomers to the field, *OLED Displays: Fundamentals and Applications*:

- Discusses emission mechanisms, material selection, device processing, manufacturing issues, and display design basics
- Outlines Thin Film Transistor (TFT) backplane design and processing details, including the Low Temperature Poly Silicon (LTPS) process and circuit integration
- Devotes a full chapter to lighting, one of the major applications of OLED
- Explores a variety of display applications, including flexible displays and the large-scale OLED television screen
- Covers both the current composition of OLED and the future of OLED technologies and displays

#### About the Author

Takatoshi Tsujimura is the General Manager of the Konica Minolta Technology Center. He received a SID award for the development of a scalable AMOLED backplane and the world's largest 20-inch OLED prototype, has worked for Kodak and IBM, and is the SID Japan Chapter vice chair. Mr. Tsujimura was selected as one of the "10 best engineers/researchers in the 10 best Japanese companies" by *Nikkei*

*Electronics* magazine.

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