



# **Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO: Application to LSI (Wiley Series in Display Technology)**

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## Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO: Application to LSI (Wiley Series in Display Technology)

This book describes the application of c-axis aligned crystalline In-Ga-Zn oxide (CAAC-IGZO) technology in large-scale integration (LSI) circuits. The applications include Non-volatile Oxide Semiconductor Random Access Memory (NOSRAM), Dynamic Oxide Semiconductor Random Access Memory (DOSRAM), central processing unit (CPU), field-programmable gate array (FPGA), image sensors, and etc. The book also covers the device physics (e.g., off-state characteristics) of the CAAC-IGZO field effect transistors (FETs) and process technology for a hybrid structure of CAAC-IGZO and Si FETs. It explains an extremely low off-state current technology utilized in the LSI circuits, demonstrating reduced power consumption in LSI prototypes fabricated by the hybrid process. A further two books in the series will describe the fundamentals; and the specific application of CAAC-IGZO to LCD and OLED displays.

Key features:

- Outlines the physics and characteristics of CAAC-IGZO FETs that contribute to favorable operations of LSI devices.
- Explains the application of CAAC-IGZO to LSI devices, highlighting attributes including low off-state current, low power consumption, and excellent charge retention.
- Describes the NOSRAM, DOSRAM, CPU, FPGA, image sensors, and etc., referring to prototype chips fabricated by a hybrid process of CAAC-IGZO and Si FETs.

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The book untitled Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO: Application to LSI (Wiley Series in Display Technology) contain a lot of information on the idea. The writer explains her idea with easy method. The language is very clear to see all the people, so do definitely not worry, you can easy to read the idea. The book was authored by famous author. The author gives you in the new period of literary works. You can read this book because you can keep reading your smart phone, or device, so you can read the book in anywhere and anytime. If you want to buy the e-book, you can start their official web-site along with order it. Have a nice go through.

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