



sensors



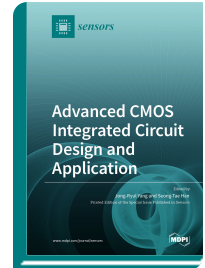
Special Issue Reprint

Advanced CMOS Integrated Circuit Design and Application

www.mdpi.com/books/reprint/5194

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ISBN 978-3-0365-3477-0 (Hardback)
ISBN 978-3-0365-3478-7 (PDF)



The recent development of various application systems and platforms, such as 5G, B5G, 6G, and IoT, is based on the advancement of CMOS integrated circuit (IC) technology that enables them to implement high-performance chipsets. In addition to development in the traditional fields of analog and digital integrated circuits, the development of CMOS IC design and application in high-power and high-frequency operations, which was previously thought to be possible only with compound semiconductor technology, is a core technology that drives rapid industrial development.

This book aims to highlight advances in all aspects of CMOS integrated circuit design and applications without discriminating between different operating frequencies, output powers, and the analog/digital domains. Specific topics in the book include:

- Next-generation CMOS circuit design and application;
- CMOS RF/microwave/millimeter-wave/terahertz-wave integrated circuits and systems;
- CMOS integrated circuits specially used for wireless or wired systems and applications such as converters, sensors, interfaces, frequency synthesizers/generators/rectifiers, and so on;
- Algorithm and signal-processing methods to improve the performance of CMOS circuits and systems.



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