



Springer

1st
edition1st ed. 2019, XXIX, 479 p.
222 illus., 167 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-319-99321-8

\$ 109,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Engineering : Circuits and Systems

Reda, Sherief, Shafique, Muhammad (Eds.), Brown University, Rhode Island, Providence, , USA

Approximate Circuits

Methodologies and CAD

- Presents an overview of the approximate arithmetic building blocks that can be used for designing power/performance efficient computing units
- Discusses effective memory approximation techniques to employ in conventional, i.e., DRAM and SRAM, as well as emerging, i.e., PCM and STT-RAM, memory technologies, for improving performance, power, and/or energy efficiency of the memory for error resilient applications
- Includes an overview of hardware or software/hardware approximation techniques that operate across entire computing devices, including processors, graphical processors, and accelerators that can form a SoC with processors

This book provides readers with a comprehensive, state-of-the-art overview of approximate computing, enabling the design trade-off of accuracy for achieving better power/performance efficiencies, through the simplification of underlying computing resources. The authors describe in detail various efforts to generate approximate hardware systems, while still providing an overview of support techniques at other computing layers. The book is organized by techniques for various hardware components, from basic building blocks to general circuits and systems.

Order online at springer.com/book sellers**Springer Nature Customer Service Center LLC**

233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com



ISBN 978-3-319-99321-8 / BIC: TJFC / SPRINGER NATURE: SCT24068

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**