**Springer**1st
edition1st ed. 2019, XXIX, 214 p.
141 illus., 55 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-03237-1

\$ 159,99

Available

Discount group

Professional Books (2)

Product category

Professional book

Engineering : Circuits and Systems

Lee, Weng Fook

Learning from VLSI Design Experience

- Addresses practical design issues and their workarounds
- Discusses issues such as CDC, crossing clock domain in shift, scan chains across power domain, timing optimization, standard cell library influence on synthesis, DFT, code coverage, state machine
- Provides readers with an RTL coding guideline, based on real experience

This book shares with readers practical design knowledge gained from the author's 24 years of IC design experience. The author addresses issues and challenges faced commonly by IC designers, along with solutions and workarounds. Guidelines are described for tackling issues such as clock domain crossing, using lockup latch to cross clock domains during scan shift, implementation of scan chains across power domain, optimization methods to improve timing, how standard cell libraries can aid in synthesis optimization, BKM (best known method) for RTL coding, test compression, memory BIST, usage of signed Verilog for design requiring +ve and -ve calculations, state machine, code coverage and much more. Numerous figures and examples are provided to aid the reader in understanding the issues and their workarounds.

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

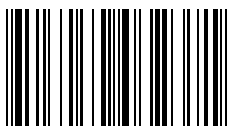
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-030-03237-1 / 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**