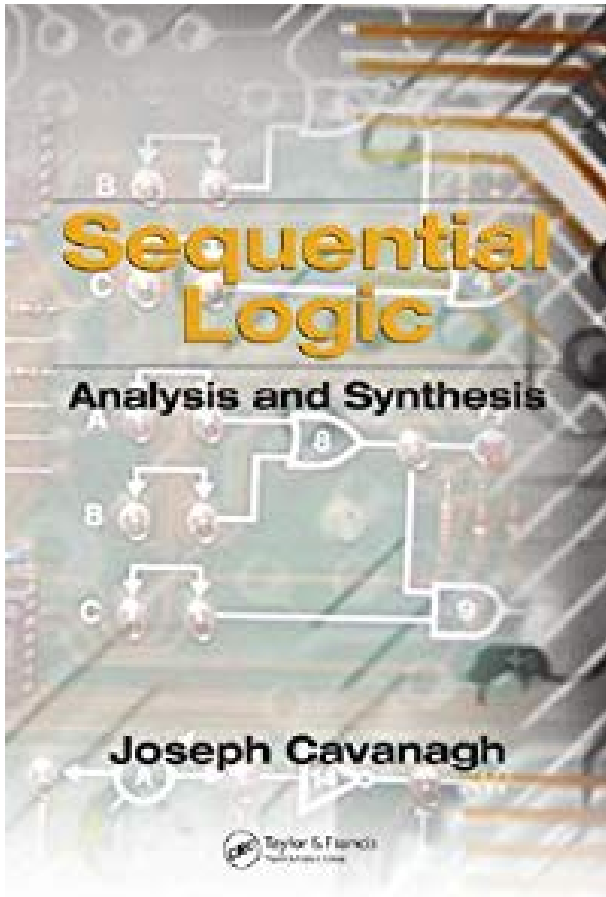


Sequential Logic: Analysis and Synthesis



Author:	Joseph Cavanagh
ISBN13:	9780849375644
ISBN10:	0849375649
Genre:	Uncategorized
Published:	June 1st 2006 by CRC Press
Pages:	896
Goodreads Rating:	5.00
Language	English

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Until now, there was no single resource for actual digital system design. Using both basic and advanced concepts, *Sequential Logic: Analysis and Synthesis* offers a thorough exposition of the analysis and synthesis of both synchronous and asynchronous sequential machines. With 25 years of experience in designing computing equipment, the author stresses the practical design of state machines. He clearly delineates each step of the structured and rigorous design principles that can be applied to practical applications. The book begins by reviewing the analysis of combinatorial logic and Boolean algebra, and goes on to define sequential machines and discuss traditional and alternative methods for synthesizing synchronous sequential machines. The final chapters deal with asynchronous sequential machines and pulse-mode asynchronous sequential machines. Because this volume is technology-independent, these techniques can be used in a variety of fields, such as electrical and computer engineering as well as nanotechnology.