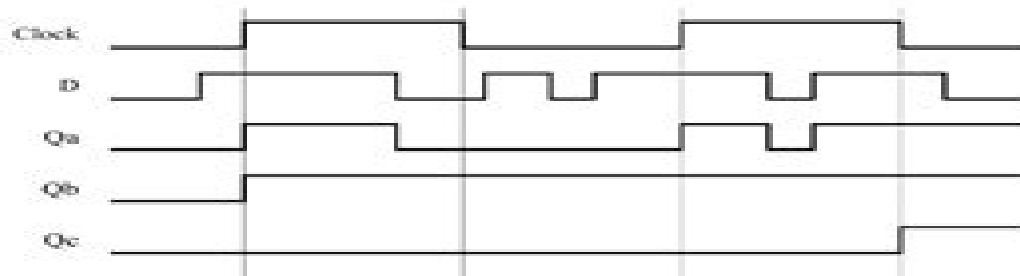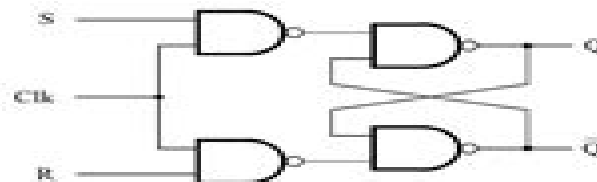# Chapter 7

7.1.

7.2. The circuit in Figure 7.3 can be modified to implement an SR latch by connecting S to the *Data* input and $S + R$ to the *Load* input. Thus the value of S is loaded into the latch whenever either S or R is asserted. Care must be taken to ensure that the *Data* signal remains stable while the *Load* signal is asserted.

7.3.

S	R	Q_a	Q_b	
1	1	0/1	1/0	(no change)
1	0	0	1	
0	1	1	0	
0	0	1	1	

7.4.

Fundamentals Of Digital Logic Design Solutions Manual

Alexander Miczo

Fundamentals Of Digital Logic Design Solutions Manual:

Instructor's Solutions Manual to Accompany Fundamentals of Digital Logic with Vhdl Design Lord Brown,Stephen D. Brown,Zvonko G. Vranesic,1999-10-01 **EBOOK: Fundamentals of Digital Logic** Stephen Brown,Zvonko Vranesic,2008-07-16 Fundamentals of Digital Logic with VHDL Design teaches the basic design techniques for logic circuits The text ptovides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips Fundamental concepts are illustrated by using small examples which are easy to understand Then a modular approach is used to show how larger circuits are designed VHDL is a complex language so it is introduced gradually in the book Each VHDL feature is presented as it becomes pertinent for the circuits being discussed While it includes a discussion of VHDL the book provides thorough coverage of the fundamental concepts of logic circuit design independent of the use of VHDL and CAD tools A CD ROM containg all of the VHDL design examples used in the book as well Altera s Quartus II CAD software is included free with every text   Digital Logic Design B. Holdsworth,2014-05-12 Digital Logic Design Second Edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer This book describes the digital design techniques which have become increasingly important Organized into 14 chapters this edition begins with an overview of the essential laws of Boolean algebra K map plotting techniques as well as the simplification of Boolean functions This text then presents the properties and develops the characteristic equations of a number of various types of flip flop Other chapters consider the design of synchronous and asynchronous counters using either discrete flip flops or shift registers This book discusses as well the design and implementation of event driven logic circuits using the NAND sequential equation The final chapter deals with simple coding techniques and the principles of error detection and correction This book is a valuable resource for undergraduate students digital engineers and scientists

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Introduction to Digital Logic Design John Patrick Hayes,1993-01-01 **Digital Design Using VHDL** William J. Dally,R. Curtis Harting,Tor M. Aamodt,2016 Provides students with a system level perspective and the tools they need to understand analyze and design complete digital systems using VHDL It goes beyond the design of simple combinational and sequential modules to show how such modules are used to build complete systems reflecting digital design in the real world

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