# Digital Logic Design - Asynchronous Counter

③ 状态转换表

| 现态 | | | 次态 | | | 时钟 | | |
|---|---|---|---|---|---|---|---|---|
| $Y_3^n$ | $Y_2^n$ | $Y_1^n$ | $Y_3^{n+1}$ | $Y_2^{n+1}$ | $Y_1^{n+1}$ | $CP_3$ | $CP_2$ | $CP_1$ |
| 0 | 0 | 0 | 0 | 0 | 1 | 无 | 无 | ↓ |
| 0 | 0 | 1 | 0 | 1 | 0 | 无 | ↓ | ↓ |
| 0 | 1 | 0 | 0 | 1 | 1 | 无 | 无 | ↓ |
| 0 | 1 | 1 | 1 | 0 | 0 | ↓ | ↓ | ↓ |
| 1 | 0 | 0 | 1 | 0 | 1 | 无 | 无 | ↓ |
| 1 | 0 | 1 | 1 | 1 | 0 | 无 | ↓ | ↓ |
| 1 | 1 | 0 | 1 | 1 | 1 | 无 | 无 | ↓ |
| 1 | 1 | 1 | 0 | 0 | 0 | ↓ | ↓ | ↓ |

异步Moor型时序电路

异步模8加法计数器

① 输入方程

$J_1 = K_1 = 1 \quad CP_1 \downarrow$

$J_2 = K_2 = 1 \quad CP_2 = Y_1 \downarrow$

$J_3 = K_3 = 1 \quad CP_3 = Y_2 \downarrow$

② 次态方程

$Y_1^{n+1} = J_1\bar{Q}_1 + \bar{K}_1 Q_1 = \bar{Y}_1 \quad CP_1 \downarrow$

$Y_2^{n+1} = J_2\bar{Q}_2 + \bar{K}_2 Q_2 = \bar{Y}_2 \quad Y_1 \downarrow$

$Y_3^{n+1} = J_3\bar{Q}_3 + \bar{K}_3 Q_3 = \bar{Y}_3 \quad Y_2 \downarrow$

二分频 ④ 波形图

# Digital Logic Design Problems And Solutions

**Library of Congress**

**Digital Logic Design Problems And Solutions:**

The Logic Design of Transistor Digital Computers Gerald A. Maley,John Earle,1963 **Introduction to Logic Design** Svetlana N. Yanushkevich,Vlad P. Shmerko,2008-01-25 With an abundance of insightful examples problems and computer experiments Introduction to Logic Design provides a balanced easy to read treatment of the fundamental theory of logic functions and applications to the design of digital devices and systems Requiring no prior knowledge of electrical circuits or electronics it supplies the **Soft Computing in Engineering Design and Manufacturing** Pravir K. Chawdhry,Rajkumar Roy,Raj K. Pant,2012-12-06 Soft Computing has emerged as an important approach towards achieving intelligent computational paradigms where key elements are learning from experience in the presence of uncertainties fuzzy belief functioos and evolutioo of the computing strategies of the learning agent itself Fuzzy neural and evolutionary computing are the three major themes of soft computing The book presents original research papers dealing with the theory of soft computing and its applicatioos in engineering design and manufacturing The methodologies have been applied to a large variety of real life problems Applicatioo of soft computing has provided the opportunity to integrate human like vagueness and real life uncertainty to an otherwise hard computer programme Now a computer programme can learn adapt and evolve using soft computing The book identifies the strengths and Iimitatioos of soft cOOlputing techniques particularly with reference to their engineering applications The applications range fran design optimisatioo to scheduling and image analysis Goal optimisatioo with incomplete infmnatioo and under uncertainty is the key to solving real life problems in design and manufacturing Soft computing techniques presented in this book address these issues Computatiooal complexity and efficient implementatioo of these techniques are also major concerns for realising useful industrial applications of soft computing The different parts in the book also address these issues The book cootains 9 parts 8 of which are based 00 papers fran the 2nd On line World Conference 00 Soft Computing in Engineering Design and Manufacture WSC2 *Problems and Solutions in Logic Design* D. Zissos,F. G. Duncan,Fraser George Duncan,1976 **The Art of Systems Architecting** Mark W. Maier,2009-01-06 If engineering is the art and science of technical problem solving systems architecting happens when you don t yet know what the problem is The third edition of a highly respected bestseller The Art of Systems Architecting provides in depth coverage of the least understood part of systems design moving from a vague concept and limited resources **Design Thinking for Software Engineering** Jennifer Hehn,Daniel Mendez,Walter Brenner,Manfred Broy,2022-02-13 This book explores the possibility of integrating design thinking into today s technical contexts Despite the popularity of design thinking in research and practice this area is still too often treated in isolation without a clear consistent connection to the world of software development The book presents design thinking approaches and experiences that can facilitate the development of software intensive products and services It argues that design thinking and related software engineering practices including requirements engineering and user centric design UX approaches are not mutually exclusive

Rather they provide complementary methods and tools for designing software intensive systems with a human centric approach Bringing together prominent experts and practitioners to share their insights approaches and experiences the book sheds new light on the specific interpretations and meanings of design thinking in various fields such as engineering management and information technology As such it provides a framework for professionals to demonstrate the potential of design thinking for software development while offering academic researchers a roadmap for further research **The Art of Systems Architecting** Eberhardt Rechtin,Mark W. Maier,2010-12-12 Today s architecting must handle systems of types unknown until very recently New domains including personal computers intersatellite networks health services and joint service command and control are calling for new architectures and for architects specializing in those domains Since the original publication of this bestselling text these **Project Impact - Disseminating Innovation in Undergraduate Education** Ann McNeal,1998-02 Contains abstracts of innovative projects designed to improve undergraduate education in science mathematics engineering and technology Descriptions are organized by discipline and include projects in astronomy biology chemistry computer science engineering geological sciences mathematics physics and social sciences as well as a selection of interdisciplinary projects Each abstract includes a description of the project published and other instructional materials additional products of the project and information on the principal investigator and participating institutions
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