

Problem Set - 10

1 Design the following counters:

- (a) A mod-7 asynchronous counter using J-K FFs
- (b) A mod-12 asynchronous counter using J-K FFs
- (c) A mod-9 synchronous counter using J-K FFs
- (d) A mod-7 synchronous counter using S-R FFs
- (e) A mod-12 synchronous counter using T FFs
- (f) A mod-14 synchronous counter using D FFs

Solution:

- (a) Design of a Mod-7 asynchronous counter using J-K flip-flops.

The truth table for Mod-7 counter is shown below. It has 7 states. After the 7th pulse it comes back to starting state, i.e., "000". It requires 3 flip-flops.

Truth table

After pulses	State	R
	Q_2, Q_1, Q_0	
0	000	0
1	001	0
2	010	0
3	011	0
4	100	0
5	101	0
6	110	0
7	111	1
	111	
	000	
8	001	

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Sham S. Malik



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Smart Digital Futures 2014 R. Neves-Silva, G.A. Tsihrintzis, V. Uskov, 2014-06-23 The interdisciplinary field of smart digital systems is crucial to modern computer science encompassing artificial intelligence information systems and engineering For over a decade the mission of KES International has been to provide publication opportunities for all those who work in knowledge intensive subjects The conferences they run worldwide are aimed at facilitating the dissemination transfer sharing and brokerage of knowledge in a number of leading edge technologies _x000D_ This book presents some 80 papers selected after peer review for inclusion in three KES conferences held as part of the Smart Digital Futures 2014 SDF 14 multi theme conference in Chania Greece in June 2014 The three conferences are Intelligent Decision Technologies KES IDT 14 Intelligence Interactive Multimedia Systems and Services KES IIMSS 14 and Smart Technology based Education and Training KES STET 14 _x000D_ The book will be of interest to all those whose work involves the development and application of intelligent digital systems **Open Problems in Mathematics and Computational Science** Çetin Kaya

Koç, 2015-03-25 This book presents interesting important unsolved problems in the mathematical and computational sciences The contributing authors are leading researchers in their fields and they explain outstanding challenges in their domains first by offering basic definitions explaining the context and summarizing related algorithms theorems and proofs and then by suggesting creative solutions The authors feel a strong motivation to excite deep research and discussion in the mathematical and computational sciences community and the book will be of value to postgraduate students and researchers in the areas of theoretical computer science discrete mathematics engineering and cryptology **Selected Topics In**

Information And Coding Theory Isaac Woungang, Sudip Misra, Subhas Chandra Misra, 2010-02-26 The last few years have witnessed rapid advancements in information and coding theory research and applications This book provides a comprehensive guide to selected topics both ongoing and emerging in information and coding theory Consisting of contributions from well known and high profile researchers in their respective specialties topics that are covered include source coding channel capacity linear complexity code construction existence and analysis bounds on codes and designs space time coding LDPC codes and codes and cryptography All of the chapters are integrated in a manner that renders the book as a supplementary reference volume or textbook for use in both undergraduate and graduate courses on information and coding theory As such it will be a valuable text for students at both undergraduate and graduate levels as well as instructors researchers engineers and practitioners in these fields Supporting Powerpoint Slides are available upon request for all instructors who adopt this book as a course text *Basic Naval Architecture Instructor's Guide And Problem Set*

Giannotti & Associates of Texas, Inc., 1988 Problems with the E-rate Program United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations, 2004 *Quantum Mechanics and its Applications to Physical Systems* Sham S. Malik, 2025-03-09 The book presents a lucid analysis of quantum mechanics with a strong

emphasis on comprehending the fundamentals Based on Dirac's bra-ket notation the essential mathematical formalism is developed and found to be useful in explaining the latest topics of interest like Nuclear Magnetic Resonance Stimulated Emission and Absorption of Radiations Ammonia Maser Quantum Computing etc This book is laden with a rich collection of fully solved examples for focusing on understanding the concepts One of the chapters presents a thorough formalism of angular momentum algebra This formalism is tested specifically to determine the spin-orbit coupling interaction which in turn plays an important role in establishing the atomic as well as nuclear shell structure The author discusses the conventional formalism known as the second quantization technique of many particle systems which is the backbone of both condensed matter theory and quantum field theory With its updated and comprehensive coverage this book meets the requirements of both graduate and research students in the field of physics

Geological Survey of Canada, Current Research (Online) no. 2002-F10 N. M. Rayner, 2002 A new method is presented for preparing samples for contextual ion microprobe isotopic studies of polished thin sections Selected areas of one or more sections are cored using 4 to 8 mm diameter diamond tipped drill bits A 5 mm diameter epoxy cylinder is prepared that exposes polished pieces of the analytical standard at one end The thin section disks and prepolished standard plug are together cast in epoxy No further sample preparation is required thereby preserving the original surface of the thin section disks This method improves the efficiency of carrying out in situ SHRIMP analysis by overcoming the typical limitation of finding few suitable minerals exposed on any given thin section and obviates technical difficulties with using this medium

Learning and Robust Control in Quantum Technology Daoyi Dong, Ian R. Petersen, 2023-03-24 This monograph provides a state-of-the-art treatment of learning and robust control in quantum technology It presents a systematic investigation of control design and algorithm realisation for several classes of quantum systems using control theoretic tools and machine learning methods The approaches rely heavily on examples and the authors cover sliding mode control of quantum systems control and classification of inhomogeneous quantum ensembles using sampling based learning control robust and optimal control design using machine learning methods robust stability of quantum systems and H and fault tolerant control of quantum systems Both theoretical algorithm design and potential practical applications are considered Methods for enhancing robustness of performance are developed in the context of quantum state preparation quantum gate construction and ultrafast control of molecules Researchers and graduates studying systems and control theory quantum control and quantum engineering especially from backgrounds in electrical engineering applied mathematics and quantum information will find Learning and Robust Control in Quantum Technology to be a valuable reference for the investigation of learning and robust control of quantum systems The material contained in this book will also interest chemists and physicists working on chemical physics quantum optics and quantum information technology

New Frontiers in Number Theory and Applications Jordi Guàrdia, Nicușor Minculete, Diana Savin, Montserrat Vela, Abdelkader Zekhnini, 2024-05-27 This contributed volume presents recent advances as well as new

directions in number theory and its applications Algebraic and analytic number theory are the main focus with chapters showing how these areas are rapidly evolving By gathering authors from over seven countries readers will gain an international perspective on the current state of research as well as potential avenues to explore Specific topics covered include Algebraic Number Theory Elliptic curves and Cryptography Hopf Galois theory Analytic and elementary number theory and applications New Frontiers in Number Theory and Applications will appeal to researchers interested in gaining a global view of current research in number theory Social Computing and Social Media. Design, Human Behavior and Analytics Gabriele Meiselwitz,2019-07-10 This two volume set LNCS 11578 and 11579 constitutes the refereed proceedings of the 11th International Conference on Social Computing and Social Media SCSM 2019 held in July 2019 as part of HCI International 2019 in Orlando FL USA HCII 2019 received a total of 5029 submissions of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process The 81 papers presented in these two volumes are organized in topical sections named Social Media Design and Development Human Behaviour in Social Media Social Network Analysis Community Engagement and Social Participation Computer Mediated Communication Healthcare Communities Social Media in Education Digital Marketing and Consumer Experience

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web step 4 the reactant that produces a smaller amount of product is the limiting reagent mg mg produces less mgo mgo than does o₂ o₂ 3 98 g mgo vs 25 2 g mgo therefore mg is the limiting reagent in this reaction step 5 the reactant that produces a larger amount of product is the excess reagent

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web if you start with 14 82 g of ca oh₂ c a o h₂ and 16 35 g of h₂so₄ h₂ s o₄ a determine the limiting reagent b determine the number of moles of h₂o h₂ o produced c determine the number of grams of caso₄ c a s o₄ produced d determine the number of grams of excess reagent left 1 make sure the equation is balanced

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