1. Record Nr. UNISA996387043403316

Titolo	Englands thankes, or, A message of thankes [[electronic resource]] : delivered by Guild-Hall, from our Mother England to all her true hearted children that have been any way assistant to the Parliament in maintaining the honour of the King, the true reigion, liberty of the subjects, and priviledges of Parliament : with a caveat to the vulgars, that they speake not immodestly of the king and envie not his person but leave all things to be controverted by the grave and wise Parliament and leave the issue to God
Pubbl/distr/stampa	London, : Printed for Francis Leach, 1642
Descrizione fisica	[2], 6 p
Soggetti	Great Britain History Charles I, 1625-1649
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reproduction of original in Thomason Collection, British Library.
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Autore	Rafiquzzaman Mohamed
Titolo	Fundamentals of digital logic and microcomputer design / / M. Rafiquzzaman
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Descrizione fisica	1 online resource (842 p.)
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Nota di contenuto	Fundamentals of Digital Logic and Microcomputer Design; Contents; PREFACE; 1. INTRODUCTION TO DIGITAL SYSTEMS; 1.1 Explanation of Terms; 1.2 Design Levels; 1.3 Combinational vs. Sequential Systems; 1.4 Digital Integrated Circuits; 1.4.1 Diodes; 1.4.2 Transistors; 1.4.3 MOS Transistors; 1.5 Integrated Circuits (ICs); 1.6 Evolution of Computers; 1.7 A Typical Microcomputer-Based Application; 1.8 Trends and Perspectives in Digital Technology; 2. NUMBER SYSTEMS AND CODES; 2.1 Number Systems; 2.1.1 General Number Representation; 2.1.2 Converting Numbers from One Base to Another 2.2 Unsigned and Signed Binary Numbers2.3 Codes; 2.3.1 Binary-Coded-Decimal Code (8421 Code); 2.3.2 Alphanumeric Codes; 2.3.3

Excess-3 Code; 2.3.4 Gray Code; 2.3.5 Unicode; 2.4 Fixed-Point and Floating-Point Representations; 2.5 Arithmetic Operations; 2.5.1 Binary Arithmetic; 2.5.2 BCD Arithmetic; 2.5.3 Multiword Binary Addition and Subtraction; 2.6 Error Correction and Detection; Questions and Problems; 3. BOOLEAN ALGEBRA AND DIGITAL LOGIC GATES; 3.1 Basic Logic Operations; 3.1.1 NOT Operation; 3.1.2 OR Operation; 3.1.3 AND Operation; 3.2 Other Logic Operations; 3.2.1 NOR Operation
3.2.2 NAND Operation3.2.3 Exclusive-OR Operation (XOR); 3.2.4 Exclusive-NOR Operation (XNOR); 3.3 IEEE Symbols for Logic Gates; 3.4 Positive and Negative Logic; 3.5 Boolean Algebra; 3.5.1 Boolean Identities; 3.5.2 Simplification Using Boolean Identities; 3.5.3 Consensus Theorem; 3.5.4 Complement of a Boolean Function; 3.6 Standard Representations; 3.7 Karnaugh Maps; 3.7.1 Two-Variable K-Map; 3.7.2 Three-Variable K-Map; 3.7.3 Four-Variable K-Map; 3.7.4 Prime Implicants; 3.7.5 Expressing a Function in Product-of-Sums Form Using a K-Map; 3.7.6 Don't Care Conditions; 3.7.7 Five-Variable K-Map
3.8 Quine-McCluskey Method3.9 Implementation of Digital Circuits with NAND, NOR, and Exclusive-OR Exclusive-NOR Gates; 3.9.1 NAND Gate Implementation; 3.9.2 NOR Gate Implementation; 3.9.3 XOR / XNOR Implementations; Questions and Problems; 4. COMBINATIONAL LOGIC DESIGN; 4.1 Basic Concepts; 4.2 Analysis of a Combinational Logic Circuit; 4.3 Design of a Combinational Circuit; 4.4 Multiple-Output Combinational Circuits; 4.5 Typical Combinational Circuits; 4.5.1 Binary / BCD Adders and Binary Subtractors; 4.5.2 Comparators; 4.5.3 Decoders; 4.5.4 Encoders; 4.5.5 Multiplexers; 4.5.6 Demultiplexers
4.6 IEEE Standard Symbols4.7 Read-Only Memories (ROMs); 4.8 Programmable Logic Devices (PLDs); 4.9 Commercially Available Field Programmable Devices (FPDs); 4.10 Hardware Description Language (HDL); Questions and Problems; 5. SEQUENTIAL LOGIC DESIGN; 5.1 Basic Concepts; 5.2 Flip-Flops; 5.2.1 SR Latch; 5.2.2 RS Flip-Flop; 5.2.3 D Flip-Flop; 5.2.4 JK Flip-Flop; 5.2.5 T Flip-Flop; 5.3 Master-Slave Flip-Flop; 5.4 Preset and Clear Inputs; 5.5 Summary of Flip-Flops; 5.6 Analysis of Synchronous Sequential Circuits; 5.7 Types of Synchronous Sequential Circuits; 5.8 Minimization of States
5.9 Design of Synchronous Sequential Circuits

Sommario/riassunto

Fundamentals of Digital Logic and Microcomputer Design, has long been hailed for its clear and simple presentation of the principles and basic tools required to design typical digital systems such as microcomputers. In this Fifth Edition, the author focuses on computer design at three levels: the device level, the logic level, and the system level. Basic topics are covered, such as number systems and Boolean algebra, combinational and sequential logic design, as well as more advanced subjects such as assembly language programming and microprocessor-based system design. Numerous examples

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Titolo	An introduction to dynamic meteorology / / James R. Holton
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Nota di contenuto	Cover; Contents; Preface; 1. Introduction; 1.1 THE ATMOSPHERIC CONTINUUM; 1.2 PHYSICAL DIMENSIONS AND UNITS; 1.3 SCALE ANALYSIS; 1.4 FUNDAMENTAL FORCES; 1.4.1 Pressure Gradient Force; 1.4.2 Gravitational Force; 1.4.3 Viscous Force; 1.5 NONINERTIALREFERENCEFRAMESAND?APPARENTZ FORCES; 1.5.1 Centripetal Acceleration and Centrifugal Force; 1.5.2 Gravity Force; 1.5.3 The Coriolis Force and the Curvature Effect; 1.5.4 Constant Angular Momentum Oscillations; 1.6 STRUCTURE OF THE STATIC ATMOSPHERE; 1.6.1 The Hydrostatic Equation; 1.6.2 Pressure as a Vertical Coordinate 1.6.3 A Generalized Vertical CoordinatePROBLEMS 1; MATLAB EXERCISES 1; Suggested References 1; 2. Basic Conservation Laws; 2.1 TOTAL DIFFERENTIATION; 2.1.1 Total Differentiation of a Vector in a Rotating System; 2.2 THE VECTORIAL FORM OF THE MOMENTUM EQUATION IN ROTATING COORDINATES; 2.3 COMPONENT EQUATIONS IN SPHERICAL COORDINATES; 2.4 SCALE ANALYSIS OF THE EQUATIONS OF MOTION; 2.4.1 Geostrophic Approximation and GeostrophicWind; 2.4.2 Approximate Prognostic Equations; the Rossby Number; 2.4.3 The Hydrostatic Approximation; 2.5 THE CONTINUITY EQUATION; 2.5.1 An Eulerian Derivation 2.5.2 A Lagrangian Derivation2.5.3 Scale Analysis of the Continuity

Equation; 2.6 THE THERMODYNAMIC ENERGY EQUATION; 2.7 THERMODYNAMICS OF THE DRY ATMOSPHERE; 2.7.1 Potential Temperature; 2.7.2 The Adiabatic Lapse Rate; 2.7.3 Static Stability; 2.7.4 Scale Analysis of the Thermodynamic Energy Equation; PROBLEMS 2; MATLAB EXERCISES 2; Suggested References 2; 3. Elementary Applications of the Basic Equations; 3.1 BASIC EQUATIONS IN ISOBARIC COORDINATES; 3.1.1 The Horizontal Momentum Equation; 3.1.2 The Continuity Equation; 3.1.3 The Thermodynamic Energy Equation; 3.2 BALANCED FLOW
3.2.1 Natural Coordinates3.2.2 Geostrophic Flow; 3.2.3 Inertial Flow; 3.2.4 Cyclostrophic Flow; 3.2.5 The GradientWind Approximation; 3.3 TRAJECTORIES AND STREAMLINES; 3.4 THE THERMAL WIND; 3.4.1 Barotropic and Baroclinic Atmospheres; 3.5 VERTICAL MOTION; 3.5.1 The Kinematic Method; 3.5.2 The Adiabatic Method; 3.6 SURFACE PRESSURE TENDENCY; PROBLEMS 3; MATLAB EXERCISES 3; 4. Circulation and Vorticity; 4.1 THE CIRCULATION THEOREM; 4.2 VORTICITY; 4.2.1 Vorticity in Natural Coordinates; 4.3 POTENTIAL VORTICITY; 4.4 THE VORTICITY EQUATION; 4.4.1 Cartesian Coordinate Form
4.4.2 The Vorticity Equation in Isobaric Coordinates4.4.3 Scale Analysis of the Vorticity Equation; 4.5 VORTICITY IN BAROTROPIC FLUIDS; 4.5.1 The Barotropic (Rossby) Potential Vorticity Equation; 4.5.2 The Barotropic Vorticity Equation; 4.6 THEBAROCLINIC (ERTEL) POTENTIALVORTICITYEQUATION; 4.6.1 Equations of Motion in Isentropic Coordinates; 4.6.2 The Potential Vorticity Equation; 4.6.3 Integral Constraints on Isentropic Vorticity; PROBLEMS 4; MATLAB EXERCISES 4; Suggested References 4; 5. The Planetary Boundary Layer; 5.1 ATMOSPHERIC TURBULENCE; 5.1.1 The Boussinesq Approximation 5.1.2 Reynolds Averaging

Sommario/riassunto

This revised text presents a cogent explanation of the fundamentals of meteorology, and explains storm dynamics for weather-oriented meteorologists. It discusses climate dynamics and the implications posed for global change. The Fourth Edition features a CD-ROM with MATLAB® exercises and updated treatments of several key topics. Much of the material is based on a two-term course for seniors majoring in atmospheric sciences.* Provides clear physical explanations of key dynamical principles * Contains a wealth of illustrations to elucidate text and equations, plus end-of-chapter pr