1. Record Nr. UNINA9910480729003321

Autore	Thomas Emery
Titolo	The generalized Pontrjagin cohomology operations and rings with divided powers / / by Emery Thomas
Pubbl/distr/stampa	Providence : , : American Mathematical Society, , 1957
ISBN	0-8218-9969-4
Descrizione fisica	1 online resource (86 p.)
Collana	Memoirs of the American Mathematical Society ; ; number 27
Soggetti	Topology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Cover title.
Nota di bibliografia	Bibliography: pages 81-82.
Nota di contenuto	""INTRODUCTION""; ""1. THE MAIN THEOREMS""; ""2. THE MODEL OPERATIONS, P[sub(t)] (t = 0, 1, ...)""; ""3. THE DEFINITION OF THE OPERATIONS [omitted][sub(t)]""; ""4. THE PROOF OF THE MAIN THEOREMS""; ""5. DEFINITION OF THE MODEL OPERATIONS P[sub(p)], (p prime)""; ""6. REMARKS ON CUP-PRODUCTS""; ""7. THE CASE OF DIMENSION A« ODD""; ""8. THE DEFINITION OF THE OPERATIONS P[sub (r)]""; ""9. THE OPERATION P[sub(p)] ON A SUM""; ""10. PROOF OF THEOREM 2.1(i), (ii), AND (iii)""; ""11. PROOF OF THEOREM 2.1(iv)""; ""12. PROOF OF THEOREM 2.1(v), (vi), AND (vii)""; ""13. PROOF OF THEOREMS 2.2 AND 2.3"" ""APPENDIX: COMPUTATION OF THE OPERATIONS [omitted][sub(t)]"""""" BIBLIOGRAPHY""

2. Record Nr. UNINA9910453103803321

Autore	Hughes Austin
Titolo	Electric motors and drives [[electronic resource]] : fundamentals, types and applications / / Austin Hughes and Bill Drury
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2013
ISBN	0-08-099368-0 1-299-20199-7
Edizione	[4th ed.]
Descrizione fisica	1 online resource (458 p.)
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	Front Cover; ELECTRIC MOTORS AND DRIVES; Copyright; CONTENTS; PREFACE; Chapter 1 - Electric Motors - The Basics; 1.INTRODUCTION; 2.PRODUCING ROTATION; 3.MAGNETIC CIRCUITS; 4.TORQUE PRODUCTION; 5.TORQUE AND MOTOR VOLUME; 6.ENERGY CONVERSION - MOTIONAL E.M.F.; 7.EQUIVALENT CIRCUIT; 8. CONSTANT VOLTAGE OPERATION; 9.GENERAL PROPERTIES OF ELECTRIC MOTORS; Chapter 2 - Introduction to Power Electronic Converters for Motor Drives; 1.INTRODUCTION; 2.VOLTAGE CONTROL - D.C. OUTPUT FROM D.C. SUPPLY; 3.D.C. FROM A.C. - CONTROLLED RECTIFICATION; 4.A.C. FROM D.C. - INVERSION; 5.A.C. FROM A.C. 6. INVERTER SWITCHING DEVICES 7.CONVERTER WAVEFORMS, ACOUSTIC NOISE, AND COOLING; Chapter 3 - Conventional D.C. Motors; 1.INTRODUCTION; 2.TORQUE PRODUCTION; 3. MOTIONAL E.M. F.; 4.D.C. MOTOR - STEADY-STATE CHARACTERISTICS; 5.TRANSIENT BEHAVIOR - CURRENT SURGES; 6.FOUR QUADRANT OPERATION AND REGENERATIVE BRAKING; 7.SHUNT AND SERIES MOTORS; 8.SELF-EXCITED D.C. MACHINE; 9.TOY MOTORS; Chapter 4 - D.C. Motor Drives; 1.INTRODUCTION; 2.THYRISTOR D.C. DRIVES - GENERAL; 3. CONTROL ARRANGEMENTS FOR D.C. DRIVES; 4.CHOPPER-FED D.C. MOTOR DRIVES; 5.D.C. SERVO DRIVES; 6.DIGITALLY CONTROLLED DRIVES

Chapter 5 - Induction Motors - Rotating Field, Slip and Torque 1. INTRODUCTION; 2.THE ROTATING MAGNETIC FIELD; 3.TORQUE PRODUCTION; 4.INFLUENCE OF ROTOR CURRENT ON FLUX; 5.STATOR CURRENT-SPEED CHARACTERISTICS; Chapter 6 - Induction Motors - Operation from 50/60Hz Supply; 1.INTRODUCTION; 2.METHODS OF STARTING CAGE MOTORS; 3.RUN-UP AND STABLE OPERATING REGIONS; 4.TORQUE-SPEED CURVES - INFLUENCE OF ROTOR PARAMETERS; 5. INFLUENCE OF SUPPLY VOLTAGE ON TORQUE-SPEED CURVE; 6. GENERATING; 7.BRAKING; 8.SPEED CONTROL; 9.POWER-FACTOR CONTROL AND ENERGY OPTIMIZATION; 10.SINGLE-PHASE INDUCTION MOTORS
11.POWER RANGE Chapter 7 - Variable Frequency Operation of Induction Motors; 1.INTRODUCTION; 2. INVERTER-FED INDUCTION MOTOR DRIVES; 3.TORQUE-SPEED CHARACTERISTICS; 4.INTRODUCTION TO FIELD-ORIENTED CONTROL; 5.STEADY-STATE TORQUE UNDER CURRENT-FED CONDITIONS; 6.TORQUE VS SLIP FREQUENCY - CONSTANT ROTOR FLUX LINKAGE; 7.DYNAMIC TORQUE CONTROL; 8. IMPLEMENTATION OF FIELD-ORIENTED CONTROL; 9.DIRECT TORQUE CONTROL; Chapter 8 - Inverter-fed Induction Motor Drives; 1. INTRODUCTION; 2.PULSE-WIDTH MODULATED (PWM) VOLTAGE SOURCE INVERTER (VSI); 3.PERFORMANCE OF INVERTER-FED INDUCTION MOTOR DRIVES
4.EFFECT OF INVERTER WAVEFORM AND VARIABLE SPEED ON THE INDUCTION MOTOR 5. EFFECT OF THE INVERTER-FED INDUCTION MOTOR ON THE UTILITY SUPPLY; 6. INVERTER AND MOTOR PROTECTION; 7.ALTERNATIVE CONVERTER TOPOLOGIES; Chapter 9 - Synchronous and Brushless Permanent Magnet Machines and Drives; 1. INTRODUCTION; 2.SYNCHRONOUS MOTORS; 3.EQUIVALENT CIRCUITS OF SYNCHRONOUS MOTORS; 4.OPERATION FROM CONSTANT-VOLTAGE, CONSTANT-FREQUENCY (UTILITY) SUPPLY; 5.VARIABLE-FREQUENCY OPERATION; 6. SYNCHRONOUS MOTOR DRIVES; 7. PERFORMANCE OF BRUSHLESS MOTORS; 8.RELUCTANCE AND HYSTERESIS MOTORS
Chapter 10 - Stepping and Switched-reluctance Motors

Sommario/riassunto

Electric Motors and Drives is intended for non-specialist users of electric motors and drives, filling the gap between maths- and theory-based academic textbooks and the more prosaic 'handbooks', which provide useful detail but little opportunity for the development of real insight and understanding. The book explores all of the widely-used modern types of motor and drive, including conventional and brushless D.C., induction motors and servo drives, providing readers with the knowledge to select the right technology for a given job.The third edition includes additional diagrams and wor