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Titolo	The Cambridge handbook of language policy // edited by Bernard Spolsky [[electronic resource]]
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Descrizione fisica	1 online resource (xvi, 738 pages) : digital, PDF file(s)
Collana	Cambridge handbooks in language and linguistics
Disciplina	306.449
Soggetti	Language policy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	What is language policy? / Bernard Spolsky -- History of the field : a sketch / Bjorn Jernudd and Jiri Nekvapil -- Philosophy of language policy / Denise Reaume and Meital Pinto -- Language policy, the nation and nationalism / Sue Wright -- Ethnic identity and language policy / Ofelia Garcia -- Diversity and language policy for endangered languages / Julia Sallabank -- Language is just a tool! On the instrumentalist approach to language / David Robichaud and Helder De Schutter -- Language policy at the supranational level / Fernand de Varennes -- Language policy, territorialism and regional autonomy / Colin H. Williams -- Imperialism and colonialism / Robert Phillipson -- Language policy at the municipal level / Peter Backhaus -- Language policy and management in service domains : brokering communication for linguistic minorities in the community / Claudia V. Angelelli -- US

language policy in defence and attack / Richard D. Brecht and William P. Rivers -- Language policy and medium of instruction in formal education / Stephen L. Walter and Carol Benson -- Language policy in education : additional languages / Jasone Cenoz and Durk Gorter -- Language policy in the workplace / Alexandre Duchene and Monica Heller -- Language policy and religion / Christina Bratt Paulston and Jonathan M. Watt -- Language policy in the family / Stephen J. Caldas -- Language policies and the Deaf community / Sherman E. Wilcox, Verena Krausneker and David F. Armstrong -- Transnationalism, migration and language education policy / Kendall A. King and Adam C. Rambow -- Language management agencies / John Edwards -- Literacy and writing reform / Florian Coulmas and Federica Guerini -- Language activism and language policy / Mary Carol Combs and Susan D. Penfield -- English in language policy and management / Gibson Ferguson -- National language revival movements : reflections from India, Israel, Indonesia and Ireland / Joseph Lo Bianco -- Colonial and post-colonial language policies in Africa : historical and emerging landscapes / Sinfree Makoni [and others] -- Indigenous language planning and policy in the Americas / Teresa L. McCarty -- Language policy in the European Union (EU) / Ulrich Ammon -- Language policy management in the former Soviet sphere / Gabrielle Hogan-Brun and Svitlana Melnyk -- Language policy in Asia and the Pacific / Richard B. Baldauf Jr. and Hoa Thi Mai Nguyen.

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#### Sommario/riassunto

Over the last 50 years, language policy has developed into a major discipline, drawing on research and practice in many nations and at many levels. This is the first Handbook to deal with language policy as a whole and is a complete 'state-of-the-field' survey, covering language practices, beliefs about language varieties, and methods and agencies for language management. It provides a historical background which traces the development of classical language planning, describes activities associated with indigenous and endangered languages, and contains chapters on imperialism, colonialism, effects of migration and globalization, and educational policy. It also evaluates language management agencies, analyzes language activism and looks at language cultivation (including reform of writing systems, orthography and modernized terminology). The definitive guide to the subject, it will be welcomed by students, researchers and language professionals in linguistics, education and politics.

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2. Record Nr.	UNINA9911006916503321
Autore	Hughes Austin
Titolo	Electric motors and drives : fundamentals, types and applications / / Austin Hughes, Bill Drury
Pubbl/distr/stampa	Oxford, United Kingdom : , : Newnes, an imprint of Elsevier, , [2019] ©2019
ISBN	0-12-818925-8
Edizione	[Fifth edition.]
Descrizione fisica	1 online resource (514 pages)
Disciplina	621.46
Soggetti	Control elèctric Motors elèctrics Electric driving Electric motors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Front Cover -- Electric Motors and Drives: Fundamentals, Types and Applications -- Copyright -- Contents -- Preface -- Chapter 1: Electric motors-The basics -- 1.1. Introduction -- 1.2. Producing rotation -- 1.2.1. Magnetic field and magnetic flux -- 1.2.2. Magnetic flux density -- 1.2.3. Force on a conductor -- 1.3. Magnetic circuits -- 1.3.1. Magnetomotive force (m.m.f.) -- 1.3.2. Electric circuit analogy -- 1.3.3. The air-gap -- 1.3.4. Reluctance and air-gap flux densities -- 1.3.5. Saturation -- 1.3.6. Magnetic circuits in motors -- 1.4. Torque production -- 1.4.1. Magnitude of torque -- 1.4.2. The beauty of slotting -- 1.5. Torque and motor volume -- 1.5.1. Specific loadings -- 1.5.2. Torque and rotor volume -- 1.5.3. Output power-Importance of speed -- 1.5.4. Power density (specific output power) -- 1.6. Energy conversion-Motional e.m.f -- 1.6.1. Elementary motor-Stationary conditions -- 1.6.2. Power relationships-Conductor moving at constant speed -- 1.7. Equivalent circuit -- 1.7.1. Motoring and generating -- 1.8. Constant voltage operation -- 1.8.1. Behaviour with no mechanical load -- 1.8.2. Behaviour with a mechanical load -- 1.8.3. Relative magnitudes of V and E, and efficiency -- 1.8.4. Analysis of primitive machine-Conclusions -- 1.9. General properties of electric motors --

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2.2.4. Boost converter -- 2.3. D.C. from a.c.-Controlled rectification -- 2.3.1. The thyristor -- 2.3.2. Single pulse rectifier -- 2.3.3. Single-phase fully-controlled converter-Output voltage and control -- Resistive load -- Inductive (motor) load -- 2.3.4. Three-phase fully-controlled converter -- 2.3.5. Output voltage range -- 2.3.6. Firing circuits -- 2.4. A.C. from d.c.-Inversion -- 2.4.1. Single-phase inverter -- 2.4.2. Output voltage control -- Mode A -- Mode B -- Mode C -- Mode D -- 2.4.3. Three-phase inverter -- 2.4.4. Multi-level inverter -- 2.4.5. Braking -- 2.4.6. Active front end -- 2.5. A.C. from a.c. -- 2.5.1. The cycloconverter -- 2.5.2. The matrix converter -- 2.6. Inverter switching devices -- 2.6.1. Bipolar junction transistor (BJT) -- 2.6.2. Metal oxide semiconductor field effect transistor (MOSFET) -- 2.6.3. Insulated gate bipolar transistor (IGBT) -- 2.7. Converter waveforms, acoustic noise, and cooling -- 2.7.1. Cooling of switching devices-Thermal resistance -- 2.7.2. Arrangement of heatsinks and forced-air cooling -- 2.8. Review questions -- Chapter 3: D.C. motors -- 3.1. Introduction -- 3.2. Torque production -- 3.2.1. Function of the commutator -- 3.2.2. Operation of the commutator-interpoles -- 3.3. Motional e.m.f. -- 3.3.1. Equivalent circuit -- 3.4. D.C. motor-steady-state characteristics -- 3.4.1. No-load speed -- 3.4.2. Performance calculation-example -- 3.4.3. Behaviour when loaded -- 3.4.4. Base speed and field weakening -- 3.4.5. Armature reaction -- 3.4.6. Maximum output power -- 3.5. Transient behaviour -- 3.5.1. Dynamic behaviour and time-constants -- 3.6. Four quadrant operation and regenerative braking -- 3.6.1. Full speed regenerative reversal -- 3.6.2. Dynamic braking -- 3.7. Shunt and series motors -- 3.7.1. Shunt motor-steady-state operating characteristics.

3.7.2. Series motor-steady-state operating characteristics -- 3.7.3. Universal motors -- 3.8. Self-excited d.c. machine -- 3.9. Toy motors -- 3.10. Review questions -- Chapter 4: D.C. motor drives -- 4.1. Introduction -- 4.2. Thyristor d.c. drives-general -- 4.2.1. Motor operation with converter supply -- 4.2.2. Motor current waveforms -- 4.2.3. Discontinuous current -- 4.2.4. Converter output impedance: Overlap -- 4.2.5. Four-quadrant operation and inversion -- 4.2.6. Single-converter reversing drives -- 4.2.7. Double-converter reversing drives -- 4.2.8. Power factor and supply effects -- 4.3. Control arrangements for d.c. drives -- 4.3.1. Current limits and protection -- 4.3.2. Torque control -- 4.3.3. Speed control -- 4.3.4. Overall operating region -- 4.3.5. Armature voltage feedback and IR compensation -- 4.3.6. Drives without current control -- 4.4. Chopper-fed d.c. motor drives -- 4.4.1. Performance of chopper-fed d. c. motor drives -- 4.4.2. Torque-speed characteristics and control arrangements -- 4.5. D.C. servo drives -- 4.5.1. Servo motors -- 4.5.2. Position control -- 4.6. Digitally-controlled drives -- 4.7. Review questions -- Chapter 5: Induction motors-Rotating field, slip and torque -- 5.1. Introduction -- 5.1.1. Outline of approach -- 5.2. The rotating magnetic field -- 5.2.1. Production of a rotating magnetic field -- 5.2.2. Field produced by each phase-winding -- 5.2.3. Resultant three-phase field -- 5.2.4. Direction of rotation -- 5.2.5. Main (air-

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8.4.1. Torque vs slip frequency-Constant stator current -- 8.4.2.  
Torque vs slip frequency-Constant rotor flux linkage -- 8.4.3. Flux and  
torque components of stator current -- 8.5. Dynamic torque control.  
8.5.1. Special property of closely-coupled circuits.

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## Sommario/riassunto

Electric Motors and Drives: Fundamentals, Types and Applications, Fifth Edition is intended primarily for non-specialist users or students of electric motors and drives, but many researchers and specialist industrialists have also acknowledged its value in providing a clear understanding of the fundamentals. It bridges the gap between specialist textbooks (too analytical for the average user) and handbooks (full of detail but with little insight) providing an understanding of how each motor and drive system works. The fifth edition has been completely revised, updated and expanded. All of the most important types of motor and drive are covered, including d.c., induction, synchronous (including synchronous reluctance and salient Permanent Magnet), switched reluctance, and stepping. There has been significant innovation in this area since the fourth edition, particularly in the automotive, aircraft and industrial sectors, with novel motor topologies emerging, including hybrid designs that combine permanent magnet and reluctance effects. We now include a physical basis for understanding and quantifying torque production in these machines, and this leads to simple pictures that illuminate the control conditions required to optimise torque. The key converter topologies have been brought together, and the treatment of inverter switching strategies expanded. A new chapter is devoted to the treatment of Field Oriented control, reflecting its increasing importance for all a.c. motor drives. A unique physically-based approach is adopted which builds naturally on the understanding of motor behaviour developed earlier in the book: the largely non-mathematical treatment dispels much of the mystique surrounding what is often regarded as a difficult topic. Helps users acquire knowledge and understanding of the capabilities and limitations of motors and drives without struggling through unnecessary math and theory. Presents updated material on the latest and most widely-used motors and drives, including brushless servo motors. Includes additional diagrams and worked examples throughout this updated edition. Includes a physical basis for the understanding and quantifying torque production.

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