1.	Record Nr.	UNINA990001840410403321
	Autore	Todaro, Francesco <1864-1950>
	Titolo	Contributo di propaganda alla battaglia del grano / Francesco Todaro
	Pubbl/distr/stampa	Bologna : Soc. Tip. gia Compositori, 1932
	Descrizione fisica	40 p. ; 27 cm
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	Locazione	FAGBC
	Collocazione	60 MISC. B 26/13
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2.	Record Nr.	UNISA996211844103316
	Titolo	Integrated design by optimization of electrical energy systems [[electronic resource] /] / edited by Xavier Roboam
	Pubbl/distr/stampa	London, : ISTE Ltd., 2012
	ISBN	1-118-56181-3
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	Descrizione fisica	1 online resource (310 p.)
	Collana	ISTE
	Altri autori (Persone)	RoboamXavier
	Disciplina	621.31
	Soggetti	Electric power systems - Design and construction
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Considerations of the mission and environmental variables; 1.2.1. Mission representation through a nominal operating point; 1.2.2. Extraction of a "sizing" temporal chronogram; 1.2.3. Representation of an environmental variable or mission resulting from statistical analysis; 1.3. New approach for the characterization of a "representative mission"; 1.3.1. Characterization indicators of the mission and environmental variables

1.3.2. Mission and environmental variables at the heart of the system: an eminently systemic bidirectional coupling 1.4. Classification of missions and environmental variables; 1.4.1. Classification without a priori assumption on the number of classes; 1.4.2. Mission classification for hybrid railway systems; 1.5. Synthesis of mission and environmental variable profiles; 1.5.1. Mission or environmental variable synthesis process; 1.5.2. Elementary patterns for profile generation; 1.5.3. Application to the compacting of a wind speed profile

1.6. From classification to simultaneous design by optimization of a hybrid traction chain 1.6.1. Modeling of the hybrid locomotive; 1.6.2. Optimization model; 1.6.3. Mission classification; 1.6.4. Synthesis of representative missions; 1.6.5. Simultaneous design by optimization; 1.6.6. Design results comparison; 1.7. Conclusion; 1.8. Bibliography; Chapter 2. Analytical Sizing Models for Electrical Energy Systems Optimization; 2.1. Introduction; 2.2. The problem of modeling for synthesis; 2.2.1. Modeling for synthesis; 2.2.2. Analytical and numerical modeling

2.3. System decomposition and model structure 2.3.1. Advantage of decomposition; 2.3.2. Application to the example of the hybrid series-parallel traction chain for the hybrid electrical heavy vehicle; 2.4. General information about the modeling of the various possible components in an electrical energy system; 2.5. Development of an electrical machine analytical model; 2.5.1. The various physical fields of the model and the associated methods for solving them; 2.5.2. Application to the example of a hybrid electrical heavy vehicle: modeling of a magnet surface-mounted synchronous machine

2.6. Development of an analytical static converter model 2.6.1. The various physical fields of the model and associated resolution methods; 2.6.2. Application to the example of a hybrid electrical heavy vehicle: modeling of inverters feeding synchronous machines; 2.7. Development of a mechanical transmission analytical model; 2.7.1. The various physical fields of the model and associated resolution methods; 2.7.2. Application to the example of a hybrid electric heavy vehicle: modeling of the Ravigneaux gear set; 2.8. Development of an analytical energy storage device model

2.9. Use of models for the optimum sizing of a system

| Sommario/riassunto | "This book presents the vision of French academics about systemic design methodologies applied to electrical energy systems. It is especially dedicated to discussion of analysis and system management, as well as modeling and sizing tools"-- |