

1. Record Nr.	UNINA9910784873003321
Autore	Pourjavady Reza
Titolo	A Jewish philosopher of Baghdad [[electronic resource] ] : 'Izz al-Dawla Ibn Kammuna (d. 683/1284) and his writings / / by Reza Pourjavady and Sabine Schmidtke
Pubbl/distr/stampa	Leiden, : Brill, 2006
ISBN	1-281-39925-6 9786611399252 90-474-0963-9
Descrizione fisica	1 online resource (286 p.)
Collana	Islamic philosophy, theology, and science, , 0169-8729 ; ; v. 65
Altri autori (Persone)	SchmidtkeSabine
Disciplina	181.6
Soggetti	Jewish philosophy - Islamic influences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes editions of 9 texts by Ibn Kammuna, in Arabic.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Preliminary Material / R. Pourjavadi and S. Schmidtke -- Chapter One. Introduction / R. Pourjavadi and S. Schmidtke -- Chapter Two. Inventory Of The Writings Of Ibn Kammuna / R. Pourjavadi and S. Schmidtke -- Chapter Three. Editions Of Selected Writings Of Ibn Kammuna / R. Pourjavadi and S. Schmidtke -- Appendix A. The Firkovitch/Shapira Codex (Sharh Al-Talwht) / R. Pourjavadi and S. Schmidtke -- Appendix B. Kitb F Ithbt Al-Nubuwwa Li-Muhammad Alayhi Al-Salm / R. Pourjavadi and S. Schmidtke -- Abbreviations And Bibliography / R. Pourjavadi and S. Schmidtke -- Index Of Names And Places / R. Pourjavadi and S. Schmidtke -- Index Of Manuscripts / R. Pourjavadi and S. Schmidtke -- Index Of Ibn Kammuna's Works / R. Pourjavadi and S. Schmidtke.
Sommario/riassunto	For a long time, the study of the life and work of the Jewish thinker Izz al-Dawla Ibn Kammuna (d. 683/1284) remained limited to a very small number of texts. Interest in Ibn Kammuna in the Western Christian world dates back to the 17th century, when Barthélemy d'Herbelot (1624-1695) included information on two of Ibn Kammuna's works – his examination of the three faiths ( Tanq al-abth li-l-milal al-thalt ), id est Judaism, Christianity and Islam, and his commentary on Avicenna's al-Isht wa l-tanbh t – in his Bibliothèque orientale .

Subsequent generations of Western scholars were focused on Ibn Kammna's Tanq al-abth , whereas his fame in the Eastern lands of Islam was based exclusively on his philosophical writings. These include a commentary on the Kitb al-Talwt by the founder of Illuminationist philosophy, Shihb al-Dn al-Suhraward (d. 587/1191) and numerous independent works on philosophy and logic. Since most of the manuscripts of Ibn Kammna's philosophical writings are located in the public and private libraries of Iran, Iraq, and Turkey, they were (and are) out of reach for the majority of Western scholars. The volume gives a detailed account of the available data of Ibn Kammna's biography, provides an outline of his philosophical thought and studies in detail the reception of his thought and his writings among later Muslim and Jewish philosophers. An inventory of his entire œuvre provides detailed information on the extant manuscripts. The volume furthermore includes editions of nine of his writings.

2. Record Nr.	UNINA9911019672003321
Autore	Mory Mathieu
Titolo	Mechanical Energy Conversion : Exercises for Scaling Renewable Energy Systems
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
ISBN	9781394299065 1394299060 9781394299041 1394299044
Edizione	[1st ed.]
Descrizione fisica	1 online resource (295 pages)
Disciplina	621.042
Soggetti	Energy conversion Renewable energy sources
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Foreword --

Preface -- Acknowledgments -- Introduction -- Chapter 1 Revision of Fluid Mechanics -- 1.1. Euler's equations -- 1.2. Head and Bernoulli's theorem -- 1.3. Hydrostatics and variation of pressure in a direction perpendicular to a streamline -- 1.4. Linear head losses -- 1.5. Singular head losses -- 1.6. Head variation along a streamline -- 1.7. Kinetic energy balance on a fluid volume -- 1.8. Momentum theorem -- 1.9. Angular momentum theorem -- 1.10. Irrotational flows, potential flows -- Chapter 2 Hydraulic Turbomachines -- 2.1. General information on turbomachinery -- 2.1.1. Turbopumps and turbines -- 2.1.2. Notions of aerodynamics -- 2.1.3. Principle of mechanical conversion: force and power, velocity triangle, fixed reference and mobile reference -- 2.1.4. Rotor and stator -- 2.1.5. Machine with infinite number of blades -- 2.1.6. Similarity of Combe-Rateau -- 2.1.7. Specific speed and classification of roto-dynamic machines -- 2.2. Pump dimensioning -- 2.2.1. Classification of roto-dynamic pumps -- 2.2.2. Centrifugal pumps -- 2.3. Turbine dimensioning -- 2.3.1. Classification of roto-dynamic turbines -- 2.3.2. Dimensioning of Pelton turbines -- 2.4. Exercise: centrifugal pump model -- 2.4.1. Solution -- 2.5. Exercise: radial flow turbine model -- 2.5.1. Solution -- Chapter 3 Wind Power -- 3.1. General -- 3.1.1. The wind resource -- 3.1.2. Energy conversion by a wind turbine -- 3.1.3. The development of the wind power sector in France and in Europe -- 3.2. Exercise: flow through a wind turbine - Betz formula -- 3.2.1. Solution -- 3.3. Exercise: wind turbine rotor model -- 3.3.1. Solution -- Chapter 4 Tidal Energy -- 4.1. General information and status of the sector -- 4.2. Exercise: energy model of the Rance plant -- 4.2.1. Solution -- 4.3. Exercise: sizing a Kaplan turbine. 4.3.1. Solution -- 4.4. Exercise: marine current turbines farm and modification of currents -- 4.4.1. Solution -- Chapter 5 Hydroelectric Power -- 5.1. Hydroelectric power history and data -- 5.2. Exercise: maximum power provided by a hydroelectric power station -- 5.2.1. Solution -- 5.3. Exercise: dimensioning of a PSH power plant -- 5.3.1. Part I - turbine study -- 5.3.2. Part II - study of pumping -- 5.3.3. Part III - production plants and operation of the hydroelectric power station -- 5.3.4. Solution -- Chapter 6 Osmotic Energy -- 6.1. The phenomenon of osmosis -- 6.2. Exercise: sizing an electricity production system using osmotic energy -- 6.2.1. Solution -- 6.3. State of the art of osmotic energy technology -- Chapter 7 Ocean Thermal Energy Conversion -- 7.1. The OTEC process -- 7.2. Exercise: sizing an OTEC installation using a closed Rankine cycle -- 7.2.1. Sizing of the closed Rankine cycle -- 7.2.2. Sizing of heat exchangers -- 7.2.3. Sizing of deep sea water pumping and conclusions -- 7.3. State of play of the OTEC sector -- 7.4. Guide to sizing a heat exchanger -- Chapter 8 Wave Energy -- 8.1. Surface gravity wave theory -- 8.1.1. General -- 8.1.2. Kinematics of linear surface waves -- 8.1.3. Wave energy and energy flow -- 8.1.4. Reflection of a wave by a vertical wall -- 8.1.5. A laboratory experiment achieving total recovery of the wave energy flow -- 8.1.6. Recovery of wave energy by an oscillating flap or by a heaving buoy -- 8.2. Exercise: sizing an oscillating flap wave energy converter -- 8.2.1. Solution -- 8.3. State of play on wave energy recovery -- References -- Index -- Other titles from ISTE in Energy -- EULA.

## Sommario/riassunto

Mechanical Energy Conversion: Exercises for Scaling Renewable Energy Systems by Mathieu Mory offers a comprehensive guide on mechanical energy conversion techniques, with a focus on scaling renewable energy systems. The book covers fundamental principles of fluid mechanics and details the operation of hydraulic turbomachines, wind power, and tidal energy systems. It aims to provide readers with

practical exercises to understand the dynamics of energy conversion and the engineering behind renewable energy technologies. The target audience includes students, researchers, and professionals in the fields of mechanical engineering and renewable energy.

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