1. Record Nr. UNINA9910467323803321

Autore	Rashid Rushdi
Titolo	Menelaus' Spherics : : early translation and al-Mahani, al-Harawi's version / / by Roshdi Rashed and Athanase Papadopoulos
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2017 ©2017
ISBN	3-11-056987-6 3-11-057142-0
Descrizione fisica	1 online resource (888 pages) : illustrations
Collana	Scientia Graeco-Arabica, , 1868-7172 ; ; Band 21
Disciplina	516.362
Soggetti	Geodesics (Mathematics) Sphere Geometry, Differential Curves on surfaces - Mathematical models Surfaces - Mathematical models Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- FOREWORD -- TABLE OF CONTENTS -- INTRODUCTION -- CHAPTER 1: MENELAUS AND HIS WRITINGS -- CHAPTER 2: THE REDACTION OF THE SPHERICS BY AL-MHN AND AL-HARAW -- CHAPTER 3: AN ELEVENTH-CENTURY WITNESS OF THE TRANSLATIONS OF THE SPHERICS: IBN HD -- EDITION AND TRANSLATION OF MENELAUS' PROPOSITIONS QUOTED IN IBN HD'S ENCYCLOPEDIA -- CHAPTER 1: THE MATHEMATICAL CONTENT OF THE SPHERICS -- CHAPTER 2: THE PROPOSITIONS -- CHAPTER 1: THE SPHERICS: A FRAGMENT OF AN ANCIENT TRANSLATION -- TEXT AND TRANSLATION -- CHAPTER 2. THE SPHERICS: THE VERSION OF AL-MHN AND AL-HARAW -- TEXT AND TRANSLATION -- POSTFACE: SPHERICAL GEOMETRY: A FEW MARKERS -- BIBLIOGRAPHY -- ARABIC-ENGLISH GLOSSARY -- INDEX OF NAMES -- INDEX OF WORKS -- INDEX OF MANUSCRIPTS
Sommario/riassunto	Despite its importance in the history of Ancient science, Menelaus' Spherics is still by and large unknown. This treatise, which lies at the

	foundation of spherical geometry, is lost in Greek but has been preserved in its Arabic versions. The reader will find here, for the first time edited and translated into English, the essentials of this tradition, namely: a fragment of an early Arabic translation and the first Arabic redaction of the Spherics composed by al-Mhn /al-Haraw, together with a historical and mathematical study of Menelaus' treatise. With this book, a new and important part of the Greek and Arabic legacy to the history of mathematics comes to light. This book will be an indispensable acquisition for any reader interested in the history of Ancient geometry and science and, more generally, in Greek and Arabic science and culture.

2.

Record Nr.	UNINA9910809943403321
Autore	Pardo Fabregat Francisco
Titolo	Aportacion al estudio de las arcillas industriales en Chile / / Francisco Pardo Fabregat, Manuel Miguel Jordan Vidal
Pubbl/distr/stampa	Elche : , : Universidad Miguel Hernandez, , [2016]
ISBN	9788416024933
Edizione	[1st ed.]
Descrizione fisica	1 online resource (64 pages)
Disciplina	552.5
Soggetti	Clay Sedimentology.<U+0009> Mineralogy
Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9910254611303321

Autore	Moser Philip
Titolo	Energy-Efficient VCSELs for Optical Interconnects / / by Philip Moser
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-24067-6
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (190 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530
Soggetti	Lasers Photonics Semiconductors Energy consumption Electrical engineering Information storage and retrieval Optics, Lasers, Photonics, Optical Devices Energy Efficiency Communications Engineering, Networks Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Doctoral Thesis accepted by the Technische Universitat Berlin, Deutschland."
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- VCSEL Fundamentals -- Dynamic Properties of Oxide-Conned VCSELs -- Dynamic Energy Eciency -- Fabrication of High-speed VCSELs -- VCSEL Design -- 850-nm VCSEL Results -- 980-nm VCSEL Results -- Conclusions and Outlook.
Sommario/riassunto	This dissertation provides the first systematic analysis of the dynamic energy efficiency of vertical-cavity surface-emitting lasers (VCSELs) for optical interconnects, a key technology to address the pressing ecological and economic issues of the exponentially growing energy consumption in data centers. Energy-efficient data communication is one of the most important elds in “Green Photonics” enabling higher bit rates at signicantly reduced energy consumption per bit. In this

thesis the static and dynamic properties of GaAs-based oxide-confined VCSELs emitting at 850 nm and 980 nm are analyzed and general rules for achieving energy-efficient data transmission using VCSELs at any wavelength are derived. These rules are verified in data transmission experiments leading to record energy-efficient data transmission across a wide range of multimode optical fiber distances and at high temperatures up to 85°C. Important trade-offs between energy efficiency, temperature stability, modulation bandwidth, low current-density operation and other VCSEL properties are revealed and discussed.