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	Autore	Ojakangas Richard W
	Titolo	Minnesota's geology / / Richard W. Ojakangas, Charles L. Matsch ; drawings, charts, and graphs by Dan Beedy
	Pubbl/distr/stampa	Minneapolis : , : University of Minnesota Press, , 1982 ©1982
	ISBN	0-8166-8167-8
	Descrizione fisica	1 online resource (ix, 255 pages) : illustrations (some color)
	Altri autori (Persone)	MatschCharles L
	Disciplina	557.76
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	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Contents; Acknowledgments; Preface; PART I. BACKGROUND; PART II. GEOLOGIC HISTORY; PART III. MINERAL RESOURCES; PART IV. REGIONAL GEOLOGY; Bibliography; Index
	Sommario/riassunto	Minnesota's Geology provides a history of the past 3.5 billion years in the area's development. In accessible language, Minnesota-based geologists Richard W. Ojakangas and Charles L. Matsch tell the story of the state's past and offer a guide for those who want to read geological history firsthand from the rocks and landscapes of today. ""Minnesota's Geology sets a standard of excellence for books about the geology of a region. . . an unusually well-written and well-balanced book."" Science Books and Films

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Titolo	HEMT Technology and Applications / / edited by Trupti Ranjan Lenka, Hieu Pham Trung Nguyen
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Descrizione fisica	1 online resource (246 pages)
Collana	Springer Tracts in Electrical and Electronics Engineering, , 2731-4219
Disciplina	621.3815284
Soggetti	Electronic circuits Cooperating objects (Computer systems) Electronic Circuits and Systems Cyber-Physical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Operation Principle of AlGaN/GaN HEMT -- Performance Analysis of AlGaN/GaN HEMT for RF and Microwave Nanoelectronics Applications -- RF and Microwave Characteristics of AlGaN/AlN/GaN HEMT for 5G Communication.
Sommario/riassunto	This book covers two broad domains: state-of-the-art research in GaN HEMT and Ga2O3 HEMT. Each technology covers materials system, band engineering, modeling and simulations, fabrication techniques, and emerging applications. The book presents basic operation principles of HEMT, types of HEMT structures, and semiconductor device physics to understand the device behavior. The book presents numerical modeling of the device and TCAD simulations for high-frequency and high-power applications. The chapters include device characteristics of HEMT including 2DEG density, Id-Vgs, Id-Vds, transconductance, linearity, and C-V. The book emphasizes the state-of-the-art fabrication techniques of HEMT and circuit design for various applications in low noise amplifier, oscillator, power electronics, and biosensor applications. The book focuses on HEMT applications to meet the ever-increasing demands of the industry, innovation in terms of materials, design, modeling, simulation, processes, and circuits. The book will be primarily helpful to

undergraduate/postgraduate, researchers, and practitioners in their research.