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Autore	Fahrner W. R (Wolfgang R.)
Titolo	Semiconductor thermoelectric generators / / Wolfgang R. Fahrner and Stefan Schwertheim
Pubbl/distr/stampa	[Zurich] : , : Trans Tech Publications, , [2009]
ISBN	3-03813-321-3
Descrizione fisica	1 online resource (139 p.)
Collana	Materials science foundations ; ; volume 61
Disciplina	621.31243
Soggetti	Thermoelectric generators Semiconductors Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Semiconductor Thermoelectric Generators; Preface; Contents; Table of Contents; 1 Introduction; 2 Historical Background; 2.1 The discovery of the thermoelectric effect by Thomas Johann Seebeck; 2.2 Historical development of the thermogenerator; 3 Basic Principles; 3.1 The Seebeck effect; 3.2 Characterization of thermoelectric generators; 4 Materials and Technology of Thermogenerators; 4.1 Thermogenerators as produced with thin film technology; 4.2 Thermogenerators as produced with thick film technology; 5 Measurement Techniques; 5.1 Measurement of the Seebeck coefficient 5.2 Measurement of the Thermal Conductivity 5.3 Four Point Measurement of the Electric Conductivity; 6 Cascadation and Segmentation; 6.1 Temperature Dependency of the Figure of Merit; 6.2 Segmented and cascaded thermogenerators; 7 New Concepts; 7.1 Nanomaterials; 7.2 Industrial concepts; 8 Condensed Literature Research; 8.1 Micro / nanothermogenerators; 8.2 Superlattice thin film thermogenerators; 8.3 Thermogenerator of layers deposited by electroplating; 9 Condensed Patent Research; 9.1 Thin film thermogenerators; 9.2 Thick film thermogenerators 10 Future Perspectives, Applications and Markets for Thermoelectrics 10.1 Future perspectives of thermoelectrics; 10.2 The patent situation of thermoelectrics; 10.3 Applications of Thermoelectrics; 10.4 Companies and markets for thermoelectrics; 11 Literature; 12

	Acknowledgments; 13 List of Acronyms, Abbreviations and Symbols; Physical Symbols; Relevant Chemical Symbols
Sommario/riassunto	It is well-known that fossil fuels are being rapidly depleted, and that atomic power is rejected by many people. As a consequence, there is a strong trend towards alternative sources such as wind, photovoltaics, solar heat and biomass. Strangely enough, quite another power source is generally neglected: namely, the thermoelectric generator (a device which converts heat, i.e. thermal energy, directly into electrical energy). The reason for this neglect is probably the low conversion efficiency, which is of the order of a few percent at most. However, there are two arguments in favor of the

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Autore	Donnelly James S
Titolo	Captain Rock [[electronic resource]] : the Irish agrarian rebellion of 1821-1824 / / James S. Donnelly, Jr
Pubbl/distr/stampa	Madison, Wis., : University of Wisconsin Press, c2009
ISBN	0-299-23313-8
Descrizione fisica	x, 508 p. : ill., maps
Collana	History of Ireland and the Irish diaspora
Disciplina	941.5081
Soggetti	Peasant uprisings - Ireland - History - 19th century Electronic books. Ireland History 1800-1837
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.

3. Record Nr. UNINA9910452854703321

Titolo	Oil and Gas, Technology and Humans : Assessing the Human Factors of Technological Change / / edited by Denis Besnard and Eirik Albrechtsen
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , [2018] ©2013
ISBN	1-315-59874-4 1-317-08610-4 1-4094-5601-3
Edizione	[1st edition.]
Descrizione fisica	1 online resource (286 p.)
Disciplina	338.2/728
Soggetti	Petroleum industry and trade - Information technology Petroleum industry and trade - Risk management Gas industry - Information technology Gas industry - Risk management Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	section 1. Foundations -- section 2. Operations and risk assessment -- section 3. Risk assessment of an IO scenario from different perspectives.
Sommario/riassunto	The oil and gas industry is going through a major technological shift. This is particularly true of the Norwegian continental shelf where new work processes are being implemented based on digital infrastructure and information technology. The term Integrated Operations (IO) has been applied to this set of new processes. It is defined by the Centre for Integrated Operations in the Petroleum Industry as 'work processes and technology to make smarter decisions and better execution, enabled by ubiquitous real time data, collaborative techniques and access to multiple expertise'. It's claimed that IO is efficient, optimises exploration, reduces costs and improves safety performance. However, the picture is not as clear-cut as it may appear. On the one hand, the new work processes do not prevent major accidents: IO-related factors have been identified in recent events such as the Deepwater Horizon

catastrophe. On the other hand, IO technology provides improved decision-making support (such as access to real-time data and expertise), which can reduce human and material losses and damage to the environment. Given these very different properties, it's vital that the industry has a detailed understanding of the benefits and drawbacks of IO, which this book sets out to do from a multidisciplinary point of view. It analyses Integrated Operations from the angles of statistics, management science, human factors and resilience engineering. These varied disciplines provide a multifaceted understanding of IO that better informs risk assessment practices, as well as explaining new techniques and methods and provides state-of-the-art guidance to risk assessment practitioners working in the oil and gas industry.