

1.	Record Nr.	UNIPARTHENOE000023366
	Titolo	Essays in fiscal federalism / Richard A. Musgrave, editor
	Pubbl/distr/stampa	Washington : The Brookings institution, 1965
	Titolo uniforme	Essays in fiscal federalism
	Descrizione fisica	XVI, 301 p. ; 24 cm
	Collana	Studies of government finance
	Collocazione	324/4
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910704800303321
	Titolo	Space cooperation : Solar Physics Satellite Project : agreement between the United States of America and Japan, effected by exchange of notes at Washington, June 10, 2005, with memorandum of understanding
	Pubbl/distr/stampa	[Washington, D.C.] : , : United States Department of State, , [2013?]
	Descrizione fisica	1 online resource (23 unnumbered pages)
	Collana	Treaties and other international acts series ; ; 05-610.1
	Soggetti	Outer space Exploration United States Outer space Exploration Japan
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Title from title screen (viewed on July 12, 2013).

3. Record Nr.	UNINA9911004828603321
Autore	Smestad Greg P
Titolo	Optoelectronics of solar cells // Greg P. Smestad
Pubbl/distr/stampa	Bellingham, Wash., : SPIE Press, c2002
ISBN	9781628701029 1628701021 9780819480491 0819480495
Descrizione fisica	1 online resource (118 p.)
Collana	SPIE Press monograph ; ; PM115
Disciplina	621.31/244
Soggetti	Solar cells Optics
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 (p. 93-96) and index.
Nota di contenuto	ch. 1. Introduction to solar cells -- 1.1. Philosophy of the text -- 1.2. Renewable energy and photovoltaics background -- 1.3. What is a solar cell? -- 1.4. Solar cell modules -- ch. 2 Absorbing solar energy -- 2.1. Air mass and the solar spectrum -- 2.2. Optical properties of solar-cell materials -- 2.3. Photoluminescence -- ch. 3. Solar cell equations -- 3.1 PV device characteristics -- 3.2. Quantum efficiency for current collection -- 3.3. Lifetime, diffusion length, and electron concentrations -- 3.4. The transport equation and current extraction -- ch. 4. Photoelectrochemistry -- 4.1. Basic photoelectrochemistry -- 4.2. The dye-sensitized nanocrystalline solar cell -- ch. 5. Generalized model of a solar converter -- 5.1. General thermodynamics of light conversion -- 5.2. Detailed balance : the generalized Planck equation -- 5.3. The luminescent output -- 5.4. The relationship between voltage and luminescence efficiency -- 5.5. Current-voltage characteristics and luminescence -- ch. 6. Concentrators of light -- 6.1. The thermodynamic limits of light concentrators -- 6.2. Geometrical optics -- 6.3. Active concentrators (luminescent systems) -- 6.4. Light enhancement in the environment -- ch. 7. Economics of photovoltaic cells and systems -- 7.1. The basics of PV economics -- 7.2. Estimated solar module cost -- 7.3. Economics of photovoltaic

systems -- 7.4. Economics of solar energy in the world economy --
7.5. Conclusions and further study -- Appendix -- A basic solar energy
library for the optical specialist -- Index.

Sommario/riassunto

With concerns about worldwide environmental security, global warming, and climate change due to emissions of carbon dioxide from the burning of fossil fuels, it is desirable to have a wide range of energy technologies in a nation's portfolio. Photovoltaics, or solar cells, are a viable option as a nonpolluting renewable energy source. This text is designed to be an overview of photovoltaic solar cells for those in the fields of optics and optical engineering, as well as those who are interested in energy policy, economics, and the requirements for efficient photo-to-electric energy conversion.
