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Autore	Speight James G.
Titolo	Environmental management of energy from biofuels and biofeedstocks // James G. Speight and Kamel Singh ; cover design by Kris Hackerott
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Descrizione fisica	1 online resource (273 p.)
Altri autori (Persone)	SinghKamel HackerottKris
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Soggetti	Biomass chemicals Biomass energy Waste products as fuel
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 at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; 1 Fuels From Biomass; 1.1 Introduction; 1.2 The Growth of Biofuels; 1.2.1 Factors Spurring Growth in the Biofuels Market; 1.2.2 Challenges to the Wide-Scale Use Of Biofuels; 1.2.3 History of Biofuels Programs; 1.2.4 Current Biofuel Production; 1.3 Conventional Biomass Feedstocks; 1.3.1 Fuels from Food Fiber and Feed Crops (1st Generation); 1.4 Challenges to Conventional Feedstocks; 1.5 Fuels from Crop Residues, Wood and Dedicated Energy Crops; 1.5.1 Characteristics of Cellulosic Biomass; 1.5.2 Biomass Residues and Organic Wastes 1.5.3 Wood Residues 1.5.4 Crop Residues; 1.5.5 Energy Crops; 1.5.6 Micro-Algae; 1.6 Technologies for Converting Biomass into Liquid Fuels; 1.6.1 Thermochemical Conversion; 1.6.2 Biochemical Conversion; 1.6.3 Emerging Developments in Conversion Technology; 1.7 The Biorefinery Concept; 1.8 Outlook for Cellulosic Liquid Fuels; 1.9 Biofuels; 1.9.1 Ethanol from Sugars; 1.9.2 Ethanol from Starches; 1.9.3

Fuel Ethanol; 1.9.4 Lipid-Derived Biofuels; References; 2 Environmental Aspects; 2.1 Introduction; 2.2 Greenhouse Gas Emissions; 2.3 Life Cycle Considerations of Biofuels  
2.3.1 Feedstock Production, Harvest, Processing, Transport 2.4 Refining Feedstocks Into Biofuels; 2.4.1 Transport of Feedstocks and Fuel; 2.4.2 Combustion; 2.4.3 Results of Well-to-Wheel Analyses; 2.4.4 Reducing the Climate Impact of Biofuels; 2.5 Impact of Growing Biomass; 2.5.1 Habitat Destruction; 2.5.2 Minimizing Land-Use and Impact on Wildlife; 2.5.3 Impact on Soil Quality; 2.5.4 Impact on Water Resources; 2.5.5 Impact on Air Quality; References; 3 Biofuel Policies; 3.1 Introduction; 3.2 Regional, National and Local Policies; 3.2.1 Africa; 3.2.2 Asia and the Pacific; 3.2.3 Latin America  
3.2.4 Europe 3.2.5 North America; 3.3 International Environmental Instruments; 3.3.1 Greenhouse Gas Emissions; 3.3.2 Other Emissions; 3.4 Standards and Certification Schemes; 3.5 International Trade; References; 4 The Biofuel Life Cycle; 4.1 Introduction; 4.2 Energy Balance and Energy Efficiency of Biofuels; 4.3 Ethanol in SI Engines; 4.4 Ethanol in CI Engines; 4.5 Biodiesel Blends; 4.6 Unblended Biodiesel; 4.7 Other Biofuels; 4.7.1 Vegetable Oil and Animal Fats; 4.7.2 Dimethyl Ether; 4.7.3 Biomass to Liquid; References; 5 Social Aspects; 5.1 Introduction  
5.2 Agricultural and Rural Development 5.3 Expanding Markets; 5.4 Creating Employment; 5.5 Subsidies; 5.6 Biofuel Processing; 5.7 Biofuels for Local Use; 5.8 Food Versus Fuel Debate; 5.9 Infrastructure Requirements; 5.10 Transport, Storage and Delivery; 5.11 Government Policies and Regulations; References; 6 The Future of Biofuels; 6.1 Introduction; 6.2 Next Generation Biofuels; 6.3 Integrated Refining Concepts - The Biorefinery; 6.3.1 The Biorefinery Concept; 6.3.2 Process Options; 6.3.3 Anaerobic Digestion; 6.3.4 Fermentation and Hydrolysis; 6.3.5 Transesterification  
6.4 Strategies for Biofuel Use

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### Sommario/riassunto

This is the most comprehensive and thorough volume on the environmental aspects of energy from biofuels and biofeedstocks. Biomass is a renewable resource whose utilization has received great attention due to environmental considerations and the increasing demands of energy worldwide. Since the energy crises of the 1970's, many countries have become interested in biomass as a fuel source to expand the development of domestic and renewable energy sources, reduce the environmental impacts of energy production, provide rural prosperity for its poor farmers, and bolster a flat agricultural sector.

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2. Record Nr.	UNINA9910794174403321
Autore	Tentler Leslie Woodcock
Titolo	American Catholics : a history / / Leslie Woodcock Tentler
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ISBN	0-300-25219-6 9780300252194
Descrizione fisica	1 online resource (xiii, 402 pages) : illustrations
Disciplina	282.73
Soggetti	Catholics - United States - History Catholics - United States - Intellectual life United States
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Livello bibliografico	Monografia
Nota di contenuto	<p>Profile. Eusebio Kino, S.J. (1645–1711) -- Spain's North American frontier -- France in America -- Catholics in the British colonies -- Profile. Samuel Mazzuchelli, O.P. (1806–1864) -- The frontier Church -- An urban stronghold -- Slavery and the Civil War -- Profile. Mother Frances Xavier Cabrini, M.S.C. (1850–1917) -- Institutional growing pains -- A people numerous and varied -- "They are afraid of democracy at Rome" -- Profile. John C. Cort (1913–2006) -- This confident church -- Catholic minds: education and intellectual life -- Public Catholicism: politics and social movements -- Profile. Patricia Caron Crowley (1913–2005) -- Something like a revolution -- Toward an uncertain future.</p> <p>Part I. On the fringes of empire. Profile : Eusebio Kino, S.J. -- Spain's North American frontier -- France in America -- Catholics in the British Colonies -- Part II: Growing with the nation, 1815-1870. Profile : Samuel Mazzuchelli, O.P. -- The frontier church -- An urban stronghold -- Slavery and the Civil War -- Part III: A turbulent passage, 1871-1919. Profile : Mother Frances Xavier Cabrini, M.S.C. -- Institutional growing pains -- A people numerous and varied -- "They are afraid of democracy at Rome" -- Part IV: Exuberant maturity, 1920-1962. Profile : John C. Cort -- This confident church -- Catholic minds</p>

: education and intellectual life -- Public Catholicism : politics and social movements -- Part V: A world unbound, 1963-2015. Profile : Patricia Caron Crowley -- Something like a revolution -- Toward an uncertain future.

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### Sommario/riassunto

A sweeping history of American Catholicism from the arrival of the first Spanish missionaries to the present This comprehensive survey of Catholic history in what became the United States spans nearly five hundred years, from the arrival of the first Spanish missionaries to the present. Distinguished historian Leslie Tentler explores lay religious practice and the impact of clergy on Catholic life and culture as she seeks to answer the question, What did it mean to be a “good Catholic” at particular times and in particular places? In its focus on Catholics' participation in American politics and Catholic intellectual life, this book includes in-depth discussions of Catholics, race, and the Civil War; Catholics and public life in the twentieth century; and Catholic education and intellectual life. Shedding light on topics of recent interest such as the role of Catholic women in parish and community life, Catholic reproductive ethics regarding birth control, and the Catholic church sex abuse crisis, this engaging history provides an up-to-date account of the history of American Catholicism.

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