1. Record Nr. UNINA9910830164903321

Autore	McGowan Tom <1950->
Titolo	Biomass and alternate fuel systems [[electronic resource]] : an engineering and economic guide / / Thomas F. McGowan
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley, c2009
ISBN	1-282-77426-3 9786612774263 0-470-92532-9 0-470-92531-0
Descrizione fisica	1 online resource (276 p.)
Disciplina	662/.88
Soggetti	Biomass energy - Economic aspects Biomass energy - Environmental aspects Renewable energy sources - Economic aspects Renewable energy sources - Environmental aspects
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 and index.
Nota di contenuto	Biomass and Alternate Fuel Systems: An Engineering and Economic Guide; CONTENTS; Preface; Acknowledgments; CHAPTER 1 Introduction to Alternate Fuels; CHAPTER 2 Fuel Properties and Combustion Theory; CHAPTER 3 Liquid Fuels from Biomass; CHAPTER 4 Biomass Combustion Equipment-Steam, Hot Oil, and Hot Gas; CHAPTER 5 Biomass Fuel Storage and Handling; CHAPTER 6 Cogeneration and Power Generation; CHAPTER 7 Emissions and Control; CHAPTER 8 Environment and Safety: Rules, Regulations, and Safe Practice; CHAPTER 9 Biomass Fuel Supply and Purchasing CHAPTER 10 Fuel-Switching Feasibility Study MethodologyCHAPTER 11 Economic Analysis of Biomass Combustion Systems; CHAPTER 12 Biomass Fuel Processing Routes and Economics; CHAPTER 13 Biomass Fuel Processing Network; CHAPTER 14 Example Feasibility Study: Nonforest Products Facility; APPENDIX 1 Equipment Manufacturers/Vendors Listing; APPENDIX 2 State Forestry Commission Offices; APPENDIX 3 Glossary; INDEX
Sommario/riassunto	This book explains characteristics of renewable fuels, especially

	biomass and wood, and the cost-effective and environment-friendly methods of handling, storing and burning these fuels. It is complete with the economic evaluation method, introduction of the pollution control equipment for limiting the emission from fuel combustion, case studies, and costs and carbon emission comparisons between conventional and alternate fuels. Many case studies are introduced here too.This book is an update and expansion of the ""Industrial Wood Energy Handbook"" by a team from the Georgia Institute o

2. Record Nr. UNINA9910972746703321

Autore	Foerstner Abigail <1949->
Titolo	James Van Allen : the first eight billion miles / / Abigail Foerstner
Pubbl/distr/stampa	Iowa City, : University of Iowa Press, c2007
ISBN	9781587297205 1587297205
Edizione	[1st ed.]
Descrizione fisica	1 online resource (377 p.)
Disciplina	523.01092 B
Soggetti	Astrophysicists - Iowa
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. [295]-306) and index.
Nota di contenuto	Frontier roots -- Heartland boyhood -- The making of a scientist -- Physicists to the war effort -- Enter Abigail Fithian Halsey -- The dawn of space exploration -- The mighty little aerobee -- It's a rocket! It's a balloon! It's a rockoon! -- Sputnik and the space race -- Countdown to explorer I -- Celebrity scientist and the birth of NASA -- Discovery of the radiation belts -- Space shield for the Cold War -- Space as a cottage industry -- The mariners -- Pioneers to the outer planets -- Space politics -- Journey to the edge of the solar system.
Sommario/riassunto	Astrophysicist and space pioneer James Van Allen (1914-2006), for whom the Van Allen radiation belts were named, was among the principal scientific investigators for twenty-four space missions, including Explorer I in 1958, the first successful U.S. satellite; Mariner

2's 1962 flyby of Venus, the first successful mission to another planet; and the 1970's Pioneer 10 and Pioneer 11, missions that surveyed Jupiter and Saturn. Abigail Foerstner blends space science, drama, military agenda's, cold war politics, and the events of Van Allen's lengthy career to create the first biography of this highl