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Titolo	Advanced technologies in biodiesel : introduction to principles and emerging trends / / Aminul Islam, Yun Hin Taufiq-Yap and Eng-Seng Chan
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Nota di bibliografia	Includes bibliographical references (pages 117-142) and index.
Nota di contenuto	1. Introduction to biodiesel -- 2. Reactor and refining technologies for biodiesel production -- 3. Biodiesel production processes -- 4. Methods for quality assessment of biodiesel -- References -- About the authors -- Index.
Sommario/riassunto	The important strategic issue of the 21st century states as the struggle for existence is the struggle for sustainable energy. In the last few years, the interest in renewable fuels has increased dramatically due to high demand of energy and the limitation of fossil fuel. Given the rapidly increasing demand for energy, which is projected to double by mid- 21st century, it is expected that biodiesels will become an important part of the global energy mix and make a significant contribution to meeting energy demand. Through extensive research, many commercial enterprises have offered comprehensive, innovative, and state-of-the-art technologies to produce high-quality biodiesel consistently at a competitive price via transesterification process. Therefore, this book gives a critical review on the recent emerged process intensification technologies for biodiesel production as well as the various methods for assessing biodiesel fuel quality and/or monitoring the transesterification reaction with advantages and drawbacks, and offers suggestions on selection of appropriate

methods, which could provide a thrilling adventure ahead of all interested scientists. The adequate and up-to-date information provided in this book should be of interest for biochemical engineers, academics, post graduate and graduate students, and industrial researchers in these areas of study. It will also cater to researchers and enthusiastic readers in the realm of alternative energy resources as well as in areas of sustainable and green energy technology development.

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Titolo

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Bailey L. H (Liberty Hyde), <1858-1954.>

Liberty Hyde Bailey : essential agrarian and environmental writings //
edited by Zachary Michael Jack

Ithaca, : Cornell University Press, 2008

Edizione

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Descrizione fisica

1 online resource (280 p.)

Altri autori (Persone)

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Soggetti

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Nota di contenuto

Front matter -- Contents -- Editor's Preface. Sower and Seer: Essential Agrarian and Environmental Writings of Liberty Hyde Bailey -- Introducing Sower and Seer, Liberty Hyde Bailey -- I. WORKMANSHIP -- II. CONSCIENCE -- III. EDUCATION -- IV. COMMUNITY -- V. NATURE -- VI. FARM -- VII. POETICS -- VIII. APPRECIATIONS -- IX. CODA, THE AGRARIAN WAY -- Index -- About the Editor

Sommario/riassunto

"Nature-study not only educates, but it educates nature-ward; and nature is ever our companion, whether we will or no. Even though we

are determined to shut ourselves in an office, nature sends her messengers. The light, the dark, the moon, the cloud, the rain, the wind, the falling leaf, the fly, the bouquet, the bird, the cockroach-they are all ours. If one is to be happy, he must be in sympathy with common things. He must live in harmony with his environment. One cannot be happy yonder nor tomorrow: he is happy here and now, or never. Our stock of knowledge of common things should be great. Few of us can travel. We must know the things at home."-from "The Meaning of the Nature-study Movement "To feel that one is a useful and cooperating part in nature is to give one kinship, and to open the mind to the great resources and the high enthusiasms. Here arise the fundamental common relations. Here arise also the great emotions and conceptions of sublimity and grandeur, of majesty and awe, the uplift of vast desires-when one contemplates the earth and the universe and desires to take them into the soul and to express oneself in their terms; and here also the responsible practices of life take root."-from "The Holy Earth "Before Wendell Berry and Aldo Leopold, there was the horticulturalist and botanist Liberty Hyde Bailey (1858-1954). For Wendell Berry, Bailey was a revelation, a symbol of the nature-minded agrarianism Berry himself popularized. For Aldo Leopold, Bailey offered a model of the scholar-essayist-naturalist. In his revolutionary work of eco-theology, *The Holy Earth*, Bailey challenged the anthropomorphism-the people-centeredness-of a vulnerable world. A trained scientist writing in the lyrical tradition of Emerson, Burroughs, and Muir, Bailey offered the twentieth century its first exquisitely interdisciplinary biocentric worldview; this Michigan farmer's son defined the intellectual and spiritual foundations of what would become the environmental movement. For nearly a half century, Bailey dominated matters agricultural, environmental, and scientific in the United States. He worked both to improve the lives of rural folk and to preserve the land from which they earned their livelihood. Along the way, he popularized nature study in U.S. classrooms, lobbied successfully for women's rights on and off the farm, and bulwarked Teddy Roosevelt's pioneering conservationism. Here for the first time is an anthology of Bailey's most important writings suitable for the general and scholarly reader alike. Carefully selected and annotated by Zachary Michael Jack, this book offers a comprehensive introduction to Bailey's celebrated and revolutionary thinking on the urgent environmental, agrarian, educational, and ecospiritual dilemmas of his day and our own. Culled from ten of Bailey's most influential works, these lyrical selections highlight Bailey's contributions to the nature-study and the Country Life movements. Published on the one-hundredth anniversary of Bailey's groundbreaking report on behalf of the Country Life Commission, *Liberty Hyde Bailey: Essential Agrarian and Environmental Writings* will inspire a new generation of nature writers, environmentalists, and those who share with Bailey a profound understanding of the elegance and power of the natural world and humanity's place within it.
