

About the Book

The book represent a dependable source of information on generation of green energy with adequate fundamental scientific, information on availability of biological resources in sustainable pattern. The book narrates inter- and multidisciplinary curriculum which includes. Policies for sustainable energy; environment vs. advance renewable energy technology; electricity generation though solid waste management; and direct electricity generation from microbial fuel cell. It also provides information on the application of the principle and quantitative relationships that define the process- as more efficient technique to teach applied of biomass energy technology conversion. In addition, latest information on commercialization of microbial fuel cell technology, bio-diesel production from microalgae, fermentation technology on biobutanol from bacteria and direct ethanol production from microalgae are well depicted with attractive illustrations and models developed by corporate sectors.

Contents:

1. *Energy security*
2. *Gasoline-like Biofuel*
3. *Diesel-like Biofuels*
4. *Green gaseous fuels technology*
5. *Bioelectricity Generation*
6. *Thermal conversions of biomass*