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Nota di contenuto	Alternative Fuels: Current Status and Way Forward -- Diethyl Ether as an Alternative Fuel for Diesel Engine -- Bio-GTL: Recent Advances of the Potential Technique -- Production and testing of Biodiesel obtained from high fatty acid soybeans oil (HEFAOBD) -- Methanol Economy vs Electrical Vehicle Economy – Indian Context -- Agricultural Waste Derived 2nd Generation Ethanol Blended Diesel Fuel in India: A Prospective -- Alternative Fuels: Current Status and Way Forward -- Production and performance parameter analysis of biodiesel from Chia oil -- Performance, Combustion and Emission Analysis of Mixed Biodiesel: A Sustainable Alternative Fuel -- Review of combustion, exhaust emissions and controls of natural gas (NG) fueled vehicles in the transportation sector -- Performance analysis of Pongamia Pinnata (L) Pierre biodiesel: A north east India perspective -- Biogas as a transportation fuel – Current status and future perspectives --

Conversion of Diesel Engine to Methanol Fueled Compression IgnitionEngine and Performance and Emission Analysis -- A Review of Coupled Geo-Chemo-Mechanical Impacts of CO2-Shale Interaction on CO2 Enhanced Shale Gas Recovery -- Production of alcohols and esters from renewable energy resources: A promising green energy carrier for clean and sustainable development.

Sommario/riassunto

This book covers alternative fuels and their utilization strategies in internal combustion engines. The main objective of this book is to provide a comprehensive overview of the recent advances in the production and utilization aspects of different types of liquid and gaseous alternative fuels. In the last few years, methanol and DME have gained significant attention of the energy sector, because of their capability to be utilized in different types of engines. This book will be a valuable resource for researchers and practicing engineers alike.