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Nota di contenuto	Title Page; Copyright; Table of Contents; List of Contributors; Preface; Acknowledgments; Chapter 1: Fuels and Combustion; 1.1 Introduction; 1.2 The Options; 1.3 Spark Ignition; 1.4 Compression Ignition; 1.5 Highly Diluted Autoignition, HCCI; 1.6 Other Combustion Concepts; 1.7 Summary of Combustion Processes; References; Chapter 2: Fuel Class Higher Alcohols; 2.1 Introduction and Fuel Properties; 2.2 Performance in Spark-Ignition Engines; 2.3 Performance in Compression-Ignition Engines; 2.4 Production Pathways; 2.5 Outlook; 2.6 Conclusions; References; Chapter 3: Fuel Class Valerates 3.1 Introduction and Fuel Properties 3.2 Performance in Spark-Ignition Engines; 3.3 Performance in Compression-Ignition Engines; 3.4 Production Pathways; 3.5 Outlook; 3.6 Conclusions; Acknowledgments; References; Chapter 4: Butyl Ethers and Levulinates; 4.1 Introduction and Fuel Properties; 4.2 Performance in Compression-Ignition Engines; 4.3 Production Pathways; 4.4 Outlook; 4.5 Conclusions; References; Chapter 5: A Comprehensive Review of 2,5-Dimethylfuran as a Biofuel Candidate; 5.1 Introduction to DMF; 5.2 Production Pathways; 5.3 Performance in Spark-Ignition Engines 5.4 Performance in Compression-Ignition Engines 5.5 Outlook; 5.6 Conclusions; References; Chapter 6: Furanoids; 6.1 Introduction and Fuel Properties; 6.2 Performance in Spark-Ignition Engines; 6.3

Performance in Compression-Ignition Engines; 6.4 Production Pathways; 6.5 Outlook; 6.6 Conclusions; References; Chapter 7: Benzenoids; 7.1 Introduction; 7.2 Overview of Neat Fuel properties; 7.3 Performance in Compression-Ignition Engines; 7.4 Performance in Spark-Ignition Engines; 7.5 Production Pathways; 7.6 Outlook and Conclusions; References; Chapter 8: Biomass Pyrolysis Oils 8.1 Introduction and Fuel Properties 8.2 Performance Spark-Ignition Engines; 8.3 Performance in Compression-Ignition Engines; 8.4 Production Pathways from Pyrolysis Oil; 8.5 Outlook; 8.6 Conclusions; References; Index; End User License Agreement
