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Autore	Basu Prabir <1946->
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Nota di contenuto	Front Cover; Biomass Gasification, Pyrolysis, and Torrefaction; Copyright Page; Dedication; Contents; Preface; Acknowledgments; About the Author; 1 Introduction; 1.1 Biomass and its Products; 1.1.1 Products of Biomass; 1.1.1.1 Chemicals Industries; 1.1.1.2 Energy Industries; 1.1.1.3 Transport Industries; 1.1.1.4 Environmental Industries; 1.2 Biomass Conversion; 1.2.1 Biochemical Conversion; 1.2.2 Thermo chemical Conversion; 1.2.2.1 Combustion; 1.2.2.2 Pyrolysis; 1.2.2.3 Torrefaction; 1.2.2.4 Gasification; 1.2.2.5 Liquefaction; 1.3 Motivation for Biomass Conversion; 1.3.1 Renewability Benefits 1.3.2 Environmental Benefits 1.3.2.1 Carbon-Neutral Feature of Biomass; 1.3.2.2 Sulfur Removal; 1.3.2.3 Nitrogen Removal; 1.3.2.4 Dust and Hazardous Gases; 1.3.3 Sociopolitical Benefits; 1.4 Historical Background; 1.5 Commercial Attraction of Gasification; 1.5.1 Comparison of Gasification and Combustion; 1.6 Brief Description of Some Biomass Conversion Processes; 1.6.1 Torrefaction; 1.6.2 Pyrolysis; 1.6.3 Combustion of Carbon; 1.6.4 Gasification of Carbon; 1.6.5 Syngas Production; 1.6.6 Methanol Synthesis; 1.6.7 Ammonia Synthesis; 1.6.8 Fischer-Tropsch Reaction; 1.6.9 Methanation Reaction Symbols and Nomenclature 2 Economic Issues of Biomass Energy Conversion; 2.1 Introduction; 2.2 Biomass Availability and Products;

2.2.1 Availability Assessment; 2.2.1.1 Energy Crop; 2.2.1.2 Biomass Cost; 2.2.2 Product Revenue from Biomass Conversion; 2.2.2.1 Energy Revenue; 2.2.2.2 Revenue from Chemicals; 2.2.2.3 Revenue from Secondary Fuel Production; 2.3 Biomass Conversion Process Plant Equipment and Cost; 2.3.1 Biomass Collection System; 2.3.2 Preprocessing; 2.3.3 Gasifier Cost; 2.3.4 Torrefier Cost; 2.3.5 Pyrolyzer Cost; 2.3.6 Comparison of Capital Costs; 2.4 Financial Analysis 2.4.1 Capital Cost Adjustment for Size and Time 2.4.1.1 Scale-Up with Size; 2.4.1.2 Scale-Up with Time; 2.4.2 Capital Requirement; 2.4.3 Operation and Maintenance Cost; 2.4.3.1 Carrying Charge; 2.4.3.2 Revenue Requirement; Symbols and Nomenclature; 3 Biomass Characteristics; 3.1 Introduction; 3.2 What Is Biomass?; 3.2.1 Biomass Formation; 3.2.2 Types of Biomass; 3.2.2.1 Lignocellulosic Biomass; 3.2.2.2 Crops and Vegetables; 3.2.2.3 Waste Biomass; 3.3 Structure of Biomass; 3.3.1 Structure of Wood; 3.3.2 Constituents of Biomass Cells; 3.3.2.1 Cellulose; 3.3.2.2 Hemicellulose; 3.3.2.3 Lignin 3.4 General Classification of Fuels 3.4.1 Atomic Ratio; 3.4.2 Relative Proportions of Lignocellulosic Components; 3.4.3 Ternary Diagram; 3.5 Properties of Biomass; 3.5.1 Physical Properties; 3.5.1.1 Densities; True Density; Apparent Density; Bulk Density; Biomass (Growth) Density; 3.5.2 Thermodynamic Properties; 3.5.2.1 Thermal Conductivity; 3.5.2.2 Specific Heat; 3.5.2.3 Heat of Formation; 3.5.2.4 Heat of Combustion (Reaction); 3.5.2.5 Heating Value; 3.5.2.6 Ignition Temperature; 3.6 Composition of Biomass; 3.6.1 Ultimate Analysis; 3.6.2 Proximate Analysis; 3.6.2.1 Volatile Matter 3.6.2.2 Ash

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### Sommario/riassunto

Biomass is the most widely used non-fossil fuel in the world. Biomass resources show a considerable potential in the long-term given the increasing proliferation of dedicated energy crops for biofuels. The second edition of Biomass Gasification and Pyrolysis is enhanced with new topics, such as torrefaction and cofiring, making it a versatile resource that not only explains the basic principles of energy conversion systems, but also provides valuable insight into the design of biomass conversion systems. This book will allow professionals, such as engineers, scientists, and op

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2. Record Nr.	UNINA9910255448603321
Autore	Wolfreys Julian <1958->
Titolo	Dickens's London : Perception, Subjectivity and Phenomenal Urban Multiplicity // Julian Wolfreys
Pubbl/distr/stampa	Edinburgh University Press, 2012 Baltimore, Maryland : , : Project Muse, , 2019 ©2019
ISBN	9786613716170 9781474429795 1474429793 9781280874864 1280874864 9780748656035 0748656030
Descrizione fisica	1 online resource (273 p.)
Collana	Edinburgh critical studies in Victorian culture
Classificazione	HL 2585
Disciplina	823.8
Soggetti	Literary Criticism / Ancient & Classical Literature - History and criticism London (England) History 19th century London (England) In literature
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (pages 244-249) and index.
Nota di contenuto	Dickens's London -- Dickens, our Contemporary -- Enargia -- A. Arrivals (and Returns): London, Whitechapel, Blackheath, Blackfriars, Windsor Terrace, City Road, The Strand, Drury Lane, Fleet Street, Buckingham Street, the Adelphi, Custom House [Lower Thames Street], the Monument, Fish-Street Hill, Saint Paul's Cathedral -- B. Banking and Breakfast: Gray's Inn Square, Temple Bar, Strand Lane -- C. Chambers: Holborn, Staple Inn, Furnival's Inn -- D. Dismal: Little Britain, Smithfields, Saint Paul's Cathedral -- E. Exteriors: Golden Square, Portland Place, Bryanston Square -- F. Faded Gentility: Camden Town -- G. Gothic: Seven Dials, Walworth, Covent Garden, India House, Aldgate Pump, Whitechapel Church, Commercial Road, Wapping Old

Stairs, St George's in the East, Snow Hill, Newgate -- H. Heart: St Paul's Cathedral -- I. Insolvent Court: Portugal Street, Lincoln's Inn, Houndsditch, Tyburn, Whitechapel, St George's Fields, Southwark -- J. Jagers's House: Gerrard Street, Soho -- K. Krook's: by Lincoln's Inn -- L. Life and Death: Snow Hill, the Saracen's Head, Smithfield, Saint James's Parish, Saint Sepulchre's Church -- M. Melancholy: Leadenhall Street, Newgate, Lant Street, Borough, St George the Martyr -- N. Nocturnal: Millbank -- O. Obstructive: Tower Street Ward -- P. Poverty: Angel, Islington, St John's Road, Sadler's Wells Theatre, Exmouth Street, Coppice Row, Hockley-in-the-Hole, Saffron Hill, Field Lane -- Q. Quiet: Soho Square, Lincoln's Inn Fields, Old Square -- R. Resignation: Todgers's, somewhere adjacent to the Monument -- S. Spring Evenings: London -- T. Time: The City, Coram's Fields -- U. Unfinished: Staggs Gardens, Camden Town -- V. Voice: Brentford, the Borough -- W. Walking: St Martin's Court, Covent Garden -- X. X marks the Spot: St Mary Axe.

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### Sommario/riassunto

This exploration of the streets of Dickens's London opens up new perspectives on the city and the writer. Taking Walter Benjamin's Arcades Project as an inspiration, Dickens's London offers an exciting and original project that opens a dialogue between phenomenology, philosophy and the Dickensian representation of the city in all its forms. Julian Wolfreys suggests that in their representations of London - its streets, buildings, public institutions, domestic residences, rooms and phenomena that constitute such space - Dickens's novels and journalism can be seen as forerunners of urban and material phenomenology. While also addressing those aspects of the urban that are developed from Dickens's interpretations of other literary forms, styles and genres, Dickens's London presents in twenty-six episodes (from Banking and Breakfast via the Insolvent Court, Melancholy and Poverty, to Todgers and Time, Voice and Waking) a radical reorientation to London in the nineteenth century, the development of Dickens as a writer, and the ways in which readers today receive and perceive both.

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