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Handbook on Coal, Lignin, Wood and Rosin Processing

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Description

Coal is one of the world's most plentiful energy resources. Coal is one of the fastest growing forms of energy after renewable sources and its share in the global primary energy consumption increasing rapidly. Lignin is the most abundant natural raw material available on Earth in terms of solar energy storage. Lignin is a complex chemical compound, cross linked polymer that forms a large molecular structure. Lignin can be used as a green alternative to many petroleum-derived substances, such as fuels, resins, rubber additives, thermoplastic blends and pharmaceuticals. Rosin is a complex mixture of mainly resin acids and small amount of non-acidic components.

Energy markets are evolving with technological advancements supporting rapid growth in renewable energy capacity. The coal market is set to witness great boost in near future because of the rising government initiatives.

Coal is one of the main power generation sources all over the world. The factors that are favoring the market growth include rising electricity demand and rapid industrialization. Presently the global coal industry market is valued at \$9.4 with CAGR of 11.21 % is poised to reach \$22 billion in coming years. Asia Pacific has the larger demand and emerging as a larger supplier of Coal. The present global lignin market demand is estimated at \$ 4,222.1 million and is expected to reach \$6,190.5 million in future.

The Major contents of the book are coal, analysis of coal and coke, cotton, lignin and hemicelluloses, degradation of wood, CCA-treated wood, wood-polymer composites, lignocellulosic-plastic composites from recycled materials, chemical modification of wood fiber, delignification of wood with pernitric acid, rosin and rosin derivatives,

polymerizable half esters of rosin. It describes the manufacturing processes and photographs of plant & machinery with supplier's contact details.

It will be a standard reference book for professionals, entrepreneurs, those studying and researching in this important area and others interested in the field of these industries.

Content

Chapter 1

Coal

Ethylene

Fischer -Tropsch Synthesis for Olefins

Direct Conversion of Synthesis Gas to Ethylene

Ethanol from Synthesis Gas

Olefins from Methanol

Methanol Homologation

Methanol to Acetic Acid

Ethylene Glycol

Acetic Anhydride

Vinyl Acetate

Other Chemicals

Coal Pyrolysis Processes

Acetylene

Production of Chemicals by

Coal Liquefaction Processes

Conclusion

Chapter 2

Analysis of Coal and Coke

Methods of Analysis

Sampling

Determination of Constitution and Physical

Properties

Functional Group Analysis

Spectroscopy

Determination of Optical Constants

Electron Microscopy

Density

X-Ray Diffraction

Specification Tests
Proximate Analysis
Ultimate Analysis
Calorific Value
Fusibility of Coal Ash
Behaviour on Heating
Equilibrium Moisture of Coal at 96-97%
Relative Humidity and 39°C
Determination of Harchbgröbe Grindability
Index of Coal
Special Constituents
Coal Classification
Chapter 3
Cotton
Methods of Analysis
Modified Cottons
Finishing Agents
Separation and Identification
Spectroscopic Methods
Inorganic Constituents
Chemical Methods
Spectroscopic Methods
Chapter 4
Lignin and Hemicellulose
Hemicellulose
Assay systems
Classification
Thermophilic Hemicellulases
Alkaline active xylanases
 β - Xylosidase
Mannanases and galactanases
Accessory enzymes for Hemicellulose utilization
Lignin
Lignin-degrading enzymes
Lignin degradation in whole cell cultures
Degradation by cell-free enzyme systems
Role of glycosides in Lignin degradation
Lignin-carbohydrate complexes
Fractionation of Lignin and
Carbohydrate in wood

Isolation of LCCs

Chemical characteristics of LC bonds

Ferulic and p-coimarin ester side chains

Frequency and stability of LC bonds

Residual lignin in kraft pulp

Biodegradation of LCCs

Residual LC structures after exhaustive
enzymatic digestion

Solubilization of LCC by microbial activity

Enzymatic treatments of pulps

Conclusion

Chapter 5

Degradation of Wood

Introduction

Gross Chemical Composition

Distribution of Wall Components

Component Chemistries

Microstructure and Porosity

Degradation of whole wood

Biodegradation of Lignin

Biodegradation of Cellulose

Biodegradation of Hemicellulose

Applications

Conclusion

Chapter 6

CCA-Treated Wood

Introduction

Materials and methods

Results and Discussion

Conclusion

Chapter 7

Wood-Polymer Composites

Introduction

Materials and Methods

Monomers

Wood specimens

Treatment of specimens with monomers

Volumetric swelling and moisture content

Result

Swelling of wood soaked in monomers

Polymer loading
Volumetric swelling of WPC specimens
Moisture content of WPC specimens
Conclusions
Chapter 8
Lignocellulosic-Plastic Composites from Recycled
Materials
Municipal Solid Waste as a Source of
Lignocellulosic Fibre and Plastics
Thermoformable composites
as Outlets for Waste Paper, Wood and Plastics
Recent Research on Wood
Fiber-Thermoplastic Composites
Research and Development Needs
Concluding Remarks
Chapter 9
Chemical Modification of Wood Fiber
Introduction
Experimental Procedure
Esterification Procedure
Analyses of Esterification Products
Board Formation
Board Testing
Moisture sorption
Rate and extent of swelling
Results and Discussion
Esterification of Wood Fiber
Moisture Sorption of Esterified Fiberboards
Rate and Extent of Swelling of Fiberboards
in Liquid Water
Plasticization of Esterified Fibers
Conclusions
Chapter 10
Delignification of Wood with
Pernitric Acid
Generation of pernitric acid
Decomposition of pernitric acid
Delignification of aspen wood
Conclusions
Experimental

Chapter 11

Rosin and Rosin Derivatives

Composition

Reaction and derivatives

Isomerization

Maleation

Oxidation

Photosensitized oxidation

Hydrogenation

Hydrogenless Hydrogenation

Polymers of vinyl esters of hydrogenated rosin

Prehydrogenation

Hydrocracking of Rosin

Dehydrogenation

Polymerisation

Analysis

Compatibility

Solubility

Instrumental analysis

Gas chromatography analysis

Infrared Spectroscopy

Nuclear magnetic resonance

Ultraviolet spectroscopy

X-Ray Analysis

Mass Spectroscopy

Phenolic modification

Salt formation

With metals

With unsaturated cyclic and acyclic hydrocarbons

Example-2

Rosin-isoprene condensate (Example-3)

Rosin-isobutene condensate (Example-4)

Example -5

Rosin-styrene condensate (Example-6)

Rosin-cyclopentadiene condensate (Example-7)

Rosin-coumarone-indene condensate (Example-8)

Rosin-divinylbenzene condensate (Example-9)

Example-10

Esterification

With Glycerol

With pentaerythritol and other polyhydric alcohols

With monohydric alcohols

Hydrogenolysis

Polyesterification

Copolyesters

Ammonolysis

Preparations

Dehydroabietylamine acetate

Dehydroabietylamine

Typical Uses

Asphalt additives

Chemical Intermediates

Corrosion Inhibitors

Flotation Reagents

Preservatives

Resolving agent

Chemical and physical properties of

Amine D acetate

Stability to heat and storage

Stability to heat and storage

Surface Activity

Chemical Reactivity

Chemical and Physical Properties of

Amine D acetate

Solubility

Note

Stability to Heat and Storage

Stability to Air and Sunlight

Surface Activity

Styrenation

Decarboxylation

Hydroxymethylation and hydroxylation

Methods of preparations

Nitrogenous intermediates

Methyl levopimarate (i)

Methyl neoabietate (ii)

Methyl photolevopimarate (iii)

Reaction of SSI with Methyl levopimarate (i)

Reaction of Chlorosulphonyl isocyanate with
methyl neoabietate (ii)

Reaction of Chlorosulphonyl isocyanate with
methyl photolevopimarate (iii)
Fumaroniprile Adduct of
levopimaric acid
Tetracyanoethylene Adduct of
levopimaric acid
Acrylonitrile adducts of
levopimaric acid
Polyoxyalkylation

Chapter 12

The Polymerizable Half Esters of Rosin

Experimental

Preparation and properties of monomers

Maleic rosin esters with reactive groups

Polymerization & Copolymerization

Aqueous Polymerization

Suspension Polymerization

Secondary reactions and graft copolymers

Reaction Involving Crosslinking

Applications

Coatings

Inks

Textiles

Conclusions

Chapter 13

Photographs of Plant & Machinery with Supplier's

Contact Details

About NIIR Project Consultancy Services (NPCS)

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