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Handbook of Low Carbon Concrete brings together the latest breakthroughs in the design, production, and application of low carbon concrete. In this handbook, the editors and contributors have paid extra attention to the emissions generated by coarse aggregates, emissions due to fine aggregates, and emissions due to cement, fly ash, GGBFS, and admixtures. In addition, the book provides expert coverage on emissions due to concrete batching, transport and placement, and emissions generated by typical commercially produced concretes. Includes the tools and methods for reducing the emissions of greenhouse gases Explores technologies, such as carbon capture, storage, and substitute cements Provides essential data that helps determine the unique factors involved in designing large, new green cement plants

The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. This 3rd volume of the Handbook is solely focused on the Physico-Chemical and Mechanical Characterization of renewable materials. Some of the important topics include but not limited to: structural and biodegradation characterization of supramolecular PCL/HAP nano-composites; different characterization of solid bio-fillers based agricultural waste material; poly (ethylene-terephthalate) reinforced with hemp fibers; poly (lactic acid) thermoplastic composites from renewable materials; chitosan –based composite materials; fabrication and characterization; the use of flax fiber reinforced polymer (FFRP) composites in the externally reinforced structures for seismic retrofitting monitored by transient thermography and optical techniques; recycling and reuse of fiber reinforced polymer wastes in concrete composite materials; analysis of damage in hybrid composites subjected to ballistic impacts; biofiber reinforced acrylated epoxidized soybean oil (AESO) biocomposites; biopolyamides and high performance natural fiber-reinforced biocomposites; impact of recycling on the mechanical and thermo-mechanical properties of wood fiber based HDPE and PLA composites; lignocellulosic fibers composites: an overview; biodiesel derived raw glycerol to value added products; thermo-mechanical characterization of sustainable structural composites; novel pH sensitive composite hydrogel based on functionalized starch/clay for the controlled release of amoxicillin; preparation and characterization of biobased thermoset polymers from renewable resources; influence of natural fillers size and shape into mechanical and barrier properties of biocomposites; composite of biodegradable polymer blends of PCL/PLLA and coconut fiber - the effects of ionizing radiation; packaging composite materials from renewable resources; physicochemical properties of ash based geopolymer concrete; a biopolymer derived from castor oil polyurethane; natural polymer based biomaterials; physical and mechanical properties of polymer membranes from renewable resources

The first comprehensive reference on mechatronics, The Mechatronics Handbook was quickly embraced as the gold standard in the field. From washing machines, to coffeemakers, to cell phones, to the ubiquitous PC in almost every household, what, these days, doesn' t take advantage of mechatronics in its design and function? In the scant five years since the initial publication of the handbook, the latest generation of smart products has made this even more obvious. Too much material to cover in a single volume Originally a single-volume reference, the handbook has grown along with the field. The need for easy access to new material on rapid changes in technology, especially in computers and software, has made the single volume format unwieldy. The second edition is offered as two easily digestible books, making the material not only more accessible, but also more focused. Completely revised and updated, Robert Bishop' s seminal work is still the most exhaustive, state-of-the-art treatment of the field available.

The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. Volume 1 is solely focused on the Structure and Chemistry of renewable materials. Some of the important topics include but not limited to: carbon fibers from sustainable resources; polylactic acid composites and composite foams based on natural fibres; composites materials from other than cellululosic resources; microcrystalline cellulose and related polymer composites; tannin-based foam; renewable feedstock vanillin derived polymer and composites; silk biocomposites; bio-derived adhesives and matrix polymers; biomass based formaldehyde-free bio-resin ; isolation and characterization of water soluble polysaccharide; bio-based fillers; keratin based materials in biotechnology; structure of proteins adsorbed onto bioactive glasses for sustainable composite; effect of filler properties on the antioxidant response of starch composites; composite of chitosan and its derivate; magnetic biochar from discarded agricultural biomass; biodegradable polymers for protein and peptide conjugation; polyurethanes and polyurethane composites from bio-based / recycled components.

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