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Advanced fibre-reinforced polymer (FRP) composites have become essential materials for the building of new structures and for the repair of existing infrastructure. Advanced fibre-reinforced polymer (FRP) composites for structural applications provides an overview of different advanced FRP composites and the use of these materials in a variety of application areas. Part one introduces materials used in the creation of advanced FRP composites including polyester, vinylester and epoxy resins. Part two goes on to explore the processing and fabrication of advanced FRP composites and includes chapters on prepreg processing and filament winding processes. Part three highlights properties of advanced FRP composites and explores how performance can be managed and tested. Applications of advanced FRP composites, including bridge engineering, pipe rehabilitation in the oil and gas industry and sustainable energy production, are discussed in part four. With its distinguished editor and international team of expert contributors, Advanced fibre-reinforced polymer (FRP) composites for structural applications is a technical resource for researchers and engineers using advanced FRP composites, as well as professionals requiring an understanding of the production and properties of advanced FRP composites, and academics interested in this field. Provides an overview of different advanced FRP composites and the use of these materials in a variety of application areas Introduces materials used in the creation of advanced FRP composites including polyester, vinylester and epoxy resins Explores the processing and fabrication of advanced FRP composites and includes chapters on prepreg processing and filament winding processes

This chapter focuses on the properties, manufacturing processes and quality control of pultruded

advanced composites used in civil engineering applications. Pultrusion technology is first briefly explained, with the main features of the raw materials used being introduced, and the philosophy underlying the development of pultruded advanced composites discussed. A detailed description of the pultrusion process then follows, covering the equipment and procedure, technical specifications and quality control. Subsequently, the types, properties, applications and sustainability of pultruded profiles, reinforcing bars and strengthening strips are described. The final part of the chapter discusses future trends for the pultrusion of the advanced composites used in civil engineering applications.

Fiber-reinforced polymer (FRP) composites have become an integral part of the construction industry because of their versatility, enhanced durability and resistance to fatigue and corrosion, high strength-to-weight ratio, accelerated construction, and lower maintenance and life-cycle costs. Advanced FRP composite materials are also emerging for a wide range of civil infrastructure applications. These include everything from bridge decks, bridge strengthening and repairs, and seismic retrofit to marine waterfront structures and sustainable, energy-efficient housing. The International Handbook of FRP Composites in Civil Engineering brings together a wealth of information on advances in materials, techniques, practices, nondestructive testing, and structural health monitoring of FRP composites, specifically for civil infrastructure. With a focus on professional applications, the handbook supplies design guidelines and standards of practice from around the world. It also includes helpful design formulas, tables, and charts to provide immediate answers to common questions. Organized into seven parts, the handbook covers: FRP fundamentals, including history, codes and standards, manufacturing, materials, mechanics, and life-cycle costs Bridge deck applications and the critical topic of connection design for FRP structural members External reinforcement for rehabilitation, including the strengthening of reinforced concrete, masonry, wood, and metallic structures FRP composites for the reinforcement of concrete structures, including material characteristics, design procedures, and quality assurance-quality control (QA/QC) issues Hybrid FRP composite systems, with an emphasis on design, construction, QA/QC, and repair Quality control, quality assurance, and evaluation using nondestructive testing, and in-service monitoring using structural health monitoring of FRP composites, including smart composites that can actively sense and respond to the environment and internal states FRP-related books, journals, conference proceedings, organizations, and research sources Comprehensive yet concise, this is an invaluable reference for practicing engineers and construction professionals, as well as researchers and students. It offers ready-to-use information on how FRP composites can be more effectively utilized in new construction, repair and reconstruction, and architectural engineering.

We have needed this book for some time. There is a very wide spectrum of management personnel, engineers in continuing education, specifiers, designers, graduate students--not to omit investors--who need this material as an intensive short course and reference work permanently at hand. Even in recession conditions the pultruded product business has grown by double-digit percentages, and this level of demand will continue as the U. S. infrastructure is renovated. Demand has stirred competition, in turn leading to product refinement. This technology development is taking place in materials, such as processable epoxy systems; in exotic but reliable production systems; and in mold/part complexity. The Handbook of Pultrusion Technology is essential to orient us in the fundamentals. The substance in Ray Meyer's treatment of this RP process is not available in any other compilation. Joseph S. McDermott, Manager Reinforced Plastics/Composites Institute The Society of the Plastics Industry, Inc. vii Preface Since my retirement five years ago I have had several opportunities to review my files and draft reports on pultrusion, especially for overseas clients. This book resulted from organizing and updating these reports and filling in some of the gaps in my information.

Polymer matrix composites are finding increasing number of applications due to their high weight-saving potential as well as unique characteristics, such as high strength-to-density ratio, fatigue resistance, high damping factor, and freedom from corrosion. While many textbooks are available on the mechanics of polymer matrix composites, few cover their processing. Processing of Polymer Matrix Composites fills this gap. The book focuses on the major manufacturing processes used for polymer matrix composites and describes process details, process parameters and their effects on properties and process-induced defects, and analytical and experimental methods used for understanding process conditions. The book describes fibers, thermosetting and thermoplastic polymers, and interface characteristics that are important from the standpoint of both design and processing. It also emphasizes the applications of process fundamentals for both continuous fiber and short fiber polymer matrix composites. In addition the book considers quality inspection methods, tooling, and manufacturing costs and environmental and safety issues.

Offers information on the fundamental principles, processes, methods and procedures related to fibre-reinforced composites. The book presents a comparative view, and provides design properties of polymeric, metal, ceramic and cement matrix composites. It also gives current test methods, joining techniques and design methodologies.

