1. Record Nr. UNINA9910458437703321 Autore Tong Liyong <1963-> Titolo 3D fibre reinforced polymer composites [[electronic resource] /] / Liyong Tong, Adrian P. Mouritz, Michael K. Bannister Boston, : Elsevier, 2002 Pubbl/distr/stampa 1-281-05367-8 **ISBN** 9786611053673 0-08-052582-2 Edizione [1st ed.] Descrizione fisica 1 online resource (255 p.) Altri autori (Persone) MouritzAdrian P BannisterMichael K Disciplina 620.1/923 Soggetti Fiber-reinforced plastics Polymeric composites Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; 3D Fibre Reinforced Polymer Composites; Copyright Page; Table of Contents; Preface; Chapter 1. Introduction; 1.1 Background; 1.2 Introduction to 3D FRP Composites; Chapter 2. Manufacture of 3D Fibre Preforms; 2.1 Introduction; 2.2 Weaving; 2.3 Braiding; 2.4 Knitting; 2.5 Stitching; 2.6 SUMMARY; Chapter 3. Preform Consolidation: 3.1 Introduction: 3.2 Liquid Moulding Techniques: 3.3

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Sommario/riassunto

Fibre reinforced polymer (FRP) composites are used in almost every type of advanced engineering structure, with their usage ranging from aircraft, helicopters and spacecraft through to boats, ships and offshore platforms and to automobiles, sports goods, chemical processing equipment and civil infrastructure such as bridges and buildlings. The usage of FRP composites continues to grow at an impressive rate as these materials are used more in their existing markets and become established in relatively new markets such as biomedical devices and civil structures. A key factor driving the increa