

1. Record Nr.	UNISALENTO991001805339707536
Autore	Krajicek, Jan
Titolo	Forcing with random variables and proof complexity / Jan Krajicek
Pubbl/distr/stampa	Cambridge, UK ; New York : Cambridge University Press, 2011
ISBN	9780521154338
Descrizione fisica	xvi, 247 p. : ill. ; 23 cm
Collana	London Mathematical Society lecture note series, 0076-0552 ; 382
Classificazione	AMS 03F20 LC QA267.7.K73
Disciplina	511.36
Soggetti	Computational complexity Random variables Mathematical analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 236-242) and indexes

2. Record Nr.	UNINA9910254152103321
Autore	Bajpai P (Pratima)
Titolo	Carbon Fibre from Lignin // by Pratima Bajpai
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
ISBN	981-10-4229-2
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIII, 77 p. 10 illus.)
Collana	SpringerBriefs in Materials, , 2192-1091
Disciplina	620.197
Soggetti	Ceramics Glass Composite materials Forest products Polymers Ceramics, Glass, Composites, Natural Materials Wood Science & Technology Polymer Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	General Background and Introduction -- Lignin -- Carbon Fibre -- Carbon Fibre Market -- Lignin as a Raw Material for Carbon Fibre -- Industrial Lignin Production -- Production of Carbon Fibre from Lignin -- Lignin fiber Spinning and Conversion to Carbon Fibre -- Future Directions of Carbon Fibre Industry -- Future perspectives.
Sommario/riassunto	This book presents detailed information on the production and properties of carbon fibers derived from lignin precursors. Focusing on future directions in the carbon fiber industry, it also introduces a novel process for obtaining high-purity lignin, a key aspect in the manufacture of high-quality carbon fiber. Carbon fiber is currently the most preferred lightweight manufacturing material and is rapidly becoming the material of choice for manufacturers around the world. Although more than 80% of commercial carbon fiber is estimated to use PAN (polyacrylonitrile) as a precursor, carbon fiber manufactured from PAN is expensive and therefore its application is limited to high-performance structural materials. Lignin is the second most abundant

biopolymer in nature after cellulose and offers a carbon-rich, renewable resource. As a byproduct of the pulp and paper industry and the production of cellulosic ethanol, lignin is also available at low cost, making it an economically attractive alternative to PAN for the production of carbon fibers, as highlighted in this book. The information presented will be of interest to all those involved in the investigation of carbon fiber materials, carbon fiber manufacturers and carbon fiber users.

---