

1. Record Nr.	UNISALENT0991003232169707536
Autore	Marsh, Harry
Titolo	Activated carbon [e-book] / Harry Marsh, Francisco Rodríguez-Reinoso
Pubbl/distr/stampa	Amsterdam ; London : Elsevier, 2006
ISBN	9780080444635 0080444636
Descrizione fisica	xvii, 536 p. : ill., ports. ; 25 cm
Altri autori (Persone)	Rodríguez-Reinoso, F., 1941-author
Disciplina	662.93
Soggetti	Carbon, Activated Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	Preface -- Acknowledgements -- 1. Introduction to the Scope of the Text -- 2. Activated Carbons (Origins) -- 3. Porosity in Carbons: Modeling -- 4. Characterization of Activated Carbon -- 5. Activation Processes (Thermal or Physical) -- 6. Activation Processes (Chemical) -- 7. SEM and TEM Images of Structures in Activated Carbons -- 8. Applicability of Activated Carbon -- 9. Production and Reference Material -- Author Index -- Subject Index
Sommario/riassunto	Recent years have seen an expansion in speciality uses of activated carbons including medicine, filtration, and the purification of liquids and gaseous media. Much of current research and information surrounding the nature and use of activated carbon is scattered throughout various literature, which has created the need for an up-to-date comprehensive and integrated review reference. In this book, special attention is paid to porosities in all forms of carbon, and to the modern-day materials which use activated carbons - including fibres, clothes, felts and monoliths. In addition, the use of activated carbon in its granular and powder forms to facilitate usage in liquid and gaseous media is explored. Activated Carbon will make essential reading for Material Scientists, Chemists and Engineers in academia and industry. * Characterization of porosity * The surface chemistry of the carbons, * Methods of activation and mechanisms of adsorption. * Computer modelling of structure and porosity within carbons. * Modern

