

1. Record Nr.	UNINA9910677144403321
Titolo	Carbon nanofibers : fundamentals and applications // edited by Madhuri Sharon and Maheshwar Sharon
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , [2021] ©2021
ISBN	1-119-76913-2 1-119-76914-0 1-119-76912-4
Descrizione fisica	1 online resource (448 pages)
Collana	Advances in Nanotechnology & Applications
Disciplina	620.193
Soggetti	Carbon nanofibers - Scientific applications Carbon nanofibers - Industrial applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"This book covers the fundamentals and applications of Carbon Nanofiber (CNF). In the first section, the initial chapter on the fundamentals of CNF is by Professor Maheshwar Sharon, the recognized "Father of Carbon Nanotechnology in India", which powerfully provides a succinct overview of CNFs. This is followed by a chapter on biogenics that have produced unique morphologies of CNF that makes them suitable to various applications. This is followed by a chapter that mainly focuses on nanocomposites, especially those involving nanocomposites of CNF. The role of nanocatalysts and composites in promoting and enhancing the synthesis and application of CNF is then covered, followed by an important chapter on the characterization of CNF. The second section of the book encompasses the various applications of CNF, such as its use as a possible superconductor to adsorb and store hydrogen, and as a microwave absorber. The application of CNF for environmental concerns is also detailed by assessing its usefulness in dye and heavy metal removal from polluted water. The applications that are addressed include lithium-ion battery, solar cell, antenna, cosmetics, usefulness in regenerative medicine, as

2. Record Nr.	UNINA9910789347603321
Autore	Benth Fred Espen <1969->
Titolo	Modeling and pricing in financial markets for weather derivatives [[electronic resource] /] / Fred Espen Benth, Jurate Saltyte Benth
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific Pub., c2013
ISBN	9789814401852 (e-book) 9789814401845 (hbk.)
Descrizione fisica	1 online resource (xi, 242 p.) : ill
Collana	Advanced series on statistical science and applied probability ; ; vol. 17
Altri autori (Persone)	Saltyte BenthJurate
Disciplina	332.6457
Soggetti	Stocks - Prices Weather derivatives
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Financial markets for weather -- Statistics of weather -- 2. Data description and exploratory analysis -- 3. Spatial-temporal modelling -- Weather derivatives -- 4. Continuous-time models of temperature and wind speed -- 5. Pricing of forward contracts on temperature and wind speed -- 6. Extensions of temperature and wind speed models -- 7. Options on temperature and wind -- 8. Precipitation derivatives -- 9. Utility-based approaches to pricing weather derivatives -- Appendix A List of abbreviations -- Bibliography -- Index.
Sommario/riassunto	Weather derivatives provide a tool for weather risk management, and the markets for these exotic financial products are gradually emerging in size and importance. This unique monograph presents a unified approach to the modeling and analysis of such weather derivatives, including financial contracts on temperature, wind and rain. Based on a deep statistical analysis of weather factors, sophisticated stochastic processes are introduced modeling the time and space dynamics. Applying ideas from the modern theory of mathematical finance, weather derivatives are priced, and questions of hedging analyzed. The treatise contains an in-depth analysis of typical weather contracts

traded at the Chicago Mercantile Exchange (CME), including so-called CDD and HDD futures. The statistical analysis of weather variables is based on a large data set from Lithuania. The monograph includes the research done by the authors over the last decade on weather markets. Their work has gained considerable attention, and has been applied in many contexts.
