

1. Record Nr.	UNINA9910337625203321
Autore	Solari Giovanni
Titolo	Wind Science and Engineering : Origins, Developments, Fundamentals and Advancements // by Giovanni Solari
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-18815-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (949 pages)
Collana	Springer Tracts in Civil Engineering , , 2366-259X
Disciplina	551.5 551.518
Soggetti	Mechanics Mechanics, Applied Fluids Buildings—Design and construction Building Construction Engineering, Architectural Renewable energy resources Meteorology Atmospheric sciences Solid Mechanics Fluid- and Aerodynamics Building Construction and Design Renewable and Green Energy Atmospheric Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	From the dawn of history to the Renaissance -- From the Renaissance to the end of the 19th century -- From the late 19th century to the mid-20th century -- From the mid-20th century to the 3rd millennium.
Sommario/riassunto	This book provides an essential overview of wind science and engineering, taking readers on a journey through the origins,

developments, fundamentals, recent advancements and latest trends in this broad field. Along the way, it addresses a diverse range of topics, including: atmospheric physics; meteorology; micrometeorology; climatology; the aerodynamics of buildings, aircraft, sailing boats, road vehicles and trains; wind energy; atmospheric pollution; soil erosion; snow drift, windbreaks and crops; bioclimatic city-planning and architecture; wind actions and effects on structures; and wind hazards, vulnerability and risk. In order to provide a comprehensive overview of wind and its manifold effects, the book combines scientific, descriptive and narrative chapters. The book is chiefly intended for students and lecturers, for those who want to learn about the genesis and evolution of this topic, and for the multitude of scholars whose work involves the wind.
