

1. Record Nr.	UNINA9910451636003321
Autore	Videler John J
Titolo	Avian flight [[electronic resource] /] / John J. Videler
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2005
ISBN	1-280-75401-X 9786610754014 0-19-152414-X 1-4237-8660-2
Descrizione fisica	1 online resource (275 p.)
Collana	Oxford ornithology series ; ; 14
Disciplina	573.79818
Soggetti	Birds - Flight Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [235]-251) and index.
Nota di contenuto	Contents; 1 Acquisition of knowledge; 2 The flight apparatus; 3 Feathers for flight; 4 Aerodynamics; 5 Evolution of bird flight; 6 Bird flight modes; 7 The bird flight engine; 8 Energy required for flight; 9 Comparing the metabolic costs of flight; Appendix 1; Appendix 2; Appendix 3; References; Index
Sommario/riassunto	Bird flight has always intrigued mankind. This book provides an up-to-date account of our existing knowledge on the subject, offering new insights and challenging some established views. A brief history of the science of flight introduces the basic physical principles governing aerial locomotion. This is followed by a treatment of flight-related functional morphology, concentrating on the difference in shape of the arm and hand part of the wings, on the structure and function of tails, and on the shape of the body. The anatomy and mechanical properties of feathers receive special attention. Ae