

1. Record Nr.	UNINA9910968451403321
Autore	Greaves Walter Stalker <1937->
Titolo	The mammalian jaw : a mechanical analysis / / Walter Stalker Greaves, University of Illinois at Chicago
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2012
ISBN	1-139-54003-3 1-107-23512-X 1-283-52207-1 1-139-52725-8 9786613834522 1-139-52605-7 1-139-53191-3 1-139-06085-6 1-139-53072-0 1-139-52844-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xii, 114 pages) : digital, PDF file(s)
Classificazione	SCI027000
Disciplina	599.14/4
Soggetti	Mammals - Anatomy Jaws - Mechanical properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. The jaw viewed as a two-dimensional lever -- 2. The jaw viewed as a three-dimensional lever -- 3. Vector inclination and joint location -- 4. Skull torsion and the postorbital bar -- General summary.
Sommario/riassunto	Mammalian skull structure is notably diverse; however at a basic level the jaw mechanism is remarkably similar, if not essentially the same, in the majority of mammals. Using simple models that are compared with real animals at every step, this book examines the basic structural features of the mammalian jaw mechanism from a mechanical point of view. It explores how the mechanical constraints placed on the jaw have contributed to the evolution of an efficient basic structure, used by many mammals, which precludes mechanical difficulties and uses a minimum amount of bone tissue. Throughout the book the emphasis is

on conceptual understanding, with explanations linked together to form a complete story that can be applied to both fossil and extant mammals. Summarising over forty years of research from one of the leading pioneers in 3D jaw mechanics, this is a must-have for anyone interested in mammalian jaw morphology.

---