

1. Record Nr.	UNISALENTO991003237069707536
Autore	Blundell, Michael
Titolo	Multibody systems approach to vehicle dynamics [e-book] / Michael Blundell, Damian Harty
Pubbl/distr/stampa	Oxford ; Burlington, MA : Elsevier Butterworth-Heinemann, 2004
ISBN	9780750651127 0750651121
Descrizione fisica	xxi, 518 p. : ill. ; 24 cm
Altri autori (Persone)	Harty, Damianauthor
Altri autori (Enti)	Society of Automotive Engineers
Disciplina	629.231
Soggetti	Motor vehicles - Dynamics Motor vehicles - Dynamics - Computer simulation Véhicules automobiles - Dynamique Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Note generali	"SAE International" "Published on behalf of Society of Automotive Engineers, Inc."
Nota di bibliografia	Includes bibliographical references (p. [502]-509) and index
Nota di contenuto	Preface; Nomenclature; Introduction ; Kinematics and Dynamics of Rigid Bodies; Multibody Systems Simulation Software; Modelling and Analysis of Suspension Systems; Tyre Characteristics and Modelling; Modelling and the Assembly of the Full Vehicle; Simulation Output and Interpretation; Active Systems; References; Appendix A-C
Sommario/riassunto	This is the first book to comprehensively bridge the gap between classical vehicle dynamics and the widely-used, computer-based technique of Multibody Systems analysis (MBS). MBS is firmly established as a key part of all modern vehicle design and development processes; any engineer working on problems involving vehicle ride or handling will use MBS to simulate vehicle motion. Suitable for use both as a teaching text and a professional reference volume, this book is an essential addition to the resources available to anyone working in vehicle design and development. Written by a leading academic in the field (who himself has considerable practical experience) and the chief dynamics engineer of Prodrive, the pre-eminent rally, race and road technology organization, the book has a unique blend of theory and practice that will be of immense value in this applications based field. *

Full of practical examples and applications \* Uses industry standard ADAMS software based applications \* Accompanied by downloadable ADAMS models and data sets available from the companion website that enable readers to explore the material in the book \* Guides readers from modelling suspension movement through to full vehicle models able to perform handling manoeuvres

---