Record Nr.	UNINA9910254168203321
Autore	Taghavifar Hamid
Titolo	Off-road vehicle dynamics : analysis, modelling and optimization / / Hamid Taghavifar, Aref Mardani
Pubbl/distr/stampa	Cham : , : Springer, , [2017] ©2017
ISBN	3-319-42520-X
Descrizione fisica	1 online resource (x, 183 pages) : illustrations
Collana	Studies in systems, decision and contro, , 2198-4190 ; ; volume 70
Disciplina	629.22042
Soggetti	Off-road vehicles - Dynamics
	Automotive engineering
	Vibration
	Dynamical systems
	Dynamics
	Artificial intelligence Automotive Engineering
	Vibration, Dynamical Systems, Control
	Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Off-road Vehicles Wheel and Terrain Interaction Performance of Off-Road Vehicles Energetic Perspective of off-road vehicle Mobility Application of Artificial Intelligence on molding and optimization Applied Problems in Dynamical Systems.
Sommario/riassunto	This book deals with the analysis of off-road vehicle dynamics from kinetics and kinematics perspectives and the performance of vehicle traversing over rough and irregular terrain. The authors consider the wheel performance, soil-tire interactions and their interface, tractive performance of the vehicle, ride comfort, stability over maneuvering, transient and steady state conditions of the vehicle traversing, modeling the aforementioned aspects and optimization from energetic and vehicle mobility perspectives. This book brings novel figures for the transient dynamics and original wheel terrain dynamics at on-the-

1.

go condition.