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Collana	Ground vehicle engineering
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction. Road. Tire. Drive Train. Suspension System. Force Elements. Vertical Dynamics. Longitudinal Dynamics. Lateral Dynamics. Driving Behavior of Single Vehicles.
Sommario/riassunto	Road Vehicle Dynamics: Fundamentals and Modeling with MATLAB, Second Edition combines coverage of vehicle dynamics concepts with MATLAB v9.4 programming routines and results, along with examples and numerous chapter exercises. Improved and updated, the revised text offers new coverage of active safety systems, rear wheel steering, race car suspension systems, airsprings, four-wheel drive, mechatronics, and other topics. Based on the lead author's extensive lectures, classes, and research activities, this unique text provides readers with insights into the computer-based modeling of automobiles and other ground vehicles. Instructor resources, including problem solutions, are available from the publisher.