1.	Record Nr.	UNINA9910795201703321
	Autore	Segers Jorge
	Titolo	Analysis techniques for racecar data acquisition / / by Jorge Segers
	Pubbl/distr/stampa	Warrendale, Pennsylvania (400 Commonwealth Dr., Warrendale PA USA) : , : Society of Automotive Engineers, , 2014
	ISBN	0-7680-8081-9 0-7680-8838-0
	Edizione	[Second Edition.]
	Descrizione fisica	1 online resource (xviii, 515 pages) : illustrations (some colored), digital PDF
	Collana	Society of Automotive Engineers. Electronic publications
	Disciplina	629.282
	Soggetti	Automobiles, Racing - Dynamics - Data processing Automobiles, Racing - Performance - Measurement Automobiles, Racing - Testing Data loggers TECHNOLOGY & ENGINEERING / Automotive SPORTS & RECREATION / Motor Sports / Automobile Racing Automotive technology and trades Car racing
	Lingua di pubblicazione	Inglese
	Eormata	
	FUIIIalu	Materiale a stampa
	Livello bibliografico	Materiale a stampa Monografia
	Livello bibliografico Nota di bibliografia	Materiale a stampa Monografia Includes bibliographical references and index.
	Livello bibliografico Nota di bibliografia Nota di contenuto	Materiale a stampa Monografia Includes bibliographical references and index. Chapter 1 Introduction Chapter 2 Data Analysis Software Requirements Chapter 3 The Basics Chapter 4 Straight-Line Acceleration Chapter 5 Braking Chapter 6 Gearing Chapter 7 Cornering Chapter 8 Understanding Tire Performance Chapter 7 Quantifying Roll Stiffness Distribution Chapter 10 Wheel Loads and Weight Transfer Chapter 11 Shock Absorbers Chapter 12 Suspension Analysis in the Frequency Domain Chapter 13 Aerodynamics Chapter 14 Analyzing the Driver Chapter 15 Simulation Tools Chapter 16 Using the Data Acquisition System for Race Strategy Chapter 17 Data Analysis Using Metrics Chapter 18 Track Data Chapter 19 Introduction to Measurement List of Symbols English Letters Greek Symbols.

system. It details how to measure the performance of the vehicle and driver, what can be learned from it, and how this information can be used to advantage next time the vehicle hits the track. Such information is invaluable to racing engineers and managers, race teams, and racing data analysts in all motor sports. In addition to updates throughout, this new edition contains three new chapters: one on techniques for analyzing tire performance, one that provides an introduction to metric-driven analysis, a technique that is used throughout the book, and another that explains what kind of information the data contains about the track.