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Dynamic analysis of a Formula SAE car

By Innocenti, Tommaso

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Differential influence on vehicle handling | This book presents the definition of a methodology to deeply analyze the dynamic and handling of a Formula SAE car, focusing the attention on the creation of a vehicle model able to simulate almost all the common maneuvers that the formula has to perform during a typical race. During the development of this work, two different models have been created: a 3 DOF one and a 15 DOF one. Both of them, built starting from the effective Formula SAE car geometric and inertial data, have been tested on common maneuvers and the results compared with the real car telemetry, to prove the efficiency and correct response of the simulator. Both the models gave interesting results, always demonstrating to give correct outputs, compared to real car or to commercial software. | Format: Paperback | Language/Sprache: english | 213 gr | 220x150x8 mm | 148 pp.



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