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Vehicle dynamics is closely related to tire characteristics. During cornering, lateral force of the vehicle is exerted to the four tires and thus they experience side-slips. As shown in Fig. 9.12, the angle between the direction of tire's heading and travel direction is known as tire slip angle α , and there exists $F_y = C_{\alpha} \alpha$, where F_y is the lateral force acting on the tire, the ...

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Road Vehicle Dynamics: Fundamentals and Modeling (Ground Vehicle Engineering Series) was published by CRC Press in 2011 and is available in hardcover format. Key Features: The text will teach students about simple models derived from vehicle dynamics fundamentals. You can develop modeling skills use Matlab case studies.

Road Vehicle Dynamics: Fundamentals and Modeling (Ground ...

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