

Motorcycle Dynamics

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this book details advanced principles of physics in relation to motorcycles

this book aims to provide the core concepts of motorcycle dynamics and illustrates their application in vehicle design to readers who have a serious interest in the subject and in particular engineers with a career path in the powered two wheelers sector

notebook motorcycle dynamics

this volume presents an integrated approach of the common fundamentals of rail and road vehicles based on multibody system dynamics rolling wheel contact and control system design the methods presented allow an efficient and reliable analysis of the resulting state equations the book provides also a better understanding of the basic physical phenomena of vehicle dynamics particular attention is paid to developments of future rail and road vehicles including motorcycles

please note that the content of this book primarily consists of articles available from wikipedia or other free sources online pages 47 chapters bicycle and motorcycle dynamics bicycle and motorcycle geometry burnout vehicle cadence braking camber thrust circle of forces contact patch cornering force countersteering engine braking highsider lowsider motorcycle stunt riding pneumatic trail racing line relaxation length self aligning torque shaft effect slip vehicle dynamics slip angle speed wobble steering ratio stoppie suspension motorcycle target fixation threshold braking tire load sensitivity trail braking weight transfer wheelie excerpt bicycle and motorcycle dynamics is the science of the motion of bicycles and motorcycles and their components due to the forces acting on them dynamics is a branch of classical mechanics which in turn is a branch of physics bike motions of interest include balancing steering braking accelerating suspension activation and vibration the study of these motions began in the late 19th century and continues today bicycles and motorcycles are both single track vehicles and so their motions have many fundamental attributes in common and are fundamentally different from and more difficult to study than other wheeled vehicles such as dicycles tricycles and quadricycles as with unicycles bikes lack lateral stability when stationary and under most circumstances can only remain upright when moving forward experimentation and mathematical analysis have shown that a bike stays upright when it is steered to keep its center of mass over its wheels this steering is usually supplied by a rider or in certain circumstances by the bike itself several factors including geometry mass distribution and gyroscopic effect all contribute in varying degrees to this self stability but long standing hypotheses and claims that any single effect such as gyroscopic or trail is solely

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for motorcyclists who have already learned how to operate their bikes with competence volume 2 provides detailed explanations of such subjects as weight management and traction during braking and acceleration slip angles accident avoidance maneuvers and much more group riding is covered including authoritative suggestions for pre ride briefings lane changes and other normal riding maneuvers and unusual formations involving trikes and sidecar rigs as well as how to deal with an impaired rider riders who wish to carry a passenger tow a trailer go camping or tour on their motorcycles will find information here on how to plan such trips jim and cash have distilled these lessons from over a half million miles of combined experience and jim s spreadsheets and models give readers the ability to analyze complicated issues of physics and motorcycle handling you ll discover more interesting material than you can imagine when you study the contents of volume 2 letter paperback 176 pages

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