

Download File

PDF Motor

Vehicle

Dynamics

Motor Vehicle Dynamics

Yeah, reviewing
a book **motor
vehicle dynamics**
could go to your
near associates
listings. This
is just one of
the solutions
for you to be

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successful. As
understood,
execution does
not suggest that
you have
wonderful
points.

Comprehending as
competently as
promise even
more than
supplementary
will have the

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Vehicle
Dynamics

funds for each
success.
neighboring to,
the notice as
well as
sharpness of
this motor
vehicle dynamics
can be taken as
with ease as
picked to act.

*What is Vehicle
Dynamics ? |*

Page 3/80

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Vehicle Dynamics

categories /

Vehicle Dynamics

approaches

Suspension

Geometry - Myths

and Reality

revisited Mod-01

Lec-01

Introduction to

Vehicle Dynamics

~~Vehicle Dynamics~~

~~Discussion With~~

~~Former Green~~

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~~Berret Mike~~

~~Glover Tesla~~

~~Model 3's motor~~

~~- The Brilliant~~

~~Engineering~~

~~behind it Ask~~

~~*the Engineers:*~~

~~*Vehicle Dynamics*~~

~~*Simulating*~~

~~*Longitudinal and*~~

~~*Lateral Vehicle*~~

~~*Dynamics Wings*~~

~~*and Spoilers;*~~

~~*Lift and Drag |*~~

Page 5/80

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How It Works

~~Vehicle Setup~~

~~Bootcamp~~

~~Episode 1~~

~~Introduction and~~

~~basic Vehicle~~

~~Dynamics~~ Learn

How To Create

This Amazing

Vehicle \u0026

Fleet Expense

Tracker In Excel

Today [Part 1]

iRacing.com

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Driving School

Chapter 2B:

Vehicle Dynamics

Here's Why

Subaru's New

Boxer Engine is

Genius The Truth

Behind The

"Ideal" Human

Body In Future

Doing This Will

Make Your Engine

Run Better

~~Ranked Worst to~~

Download File

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~~Best: 2020 Small~~

~~SUVs Best~~

~~Compact SUVs~~

~~Under \$35K - Per~~

~~Consumer Reports~~

~~\u0026 US News~~

~~Rating **10**~~

~~**Engines That**~~

~~**Won't Last**~~

~~**60,000 Miles**~~

~~**(Because They**~~

~~**Are Junk)** ~~12 NEW~~~~

~~CAR GADGETS YOU~~

~~SHOULD BUY~~ *Bug*

Page 8/80

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~~Vehicle Recon - With~~

~~Green Berets~~

~~Mike Glover and~~

~~Kevin Owens How~~

~~to become a~~

~~Vehicle Dynamics~~

~~Engineer? |~~

~~Skill-Lyne Intro~~

~~to Racecar~~

~~Engineering: 01~~

~~Getting Started~~

~~Physics -~~

~~Mechanics: Rigid~~

~~Body Rotation (4~~

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of 10)

Calculating
Acceleration

\u0026 Friction
of a Car Tire

Vehicle dynamics
\u0026

suspension tech
deep-dive (1st
in-Fatcave

interview!) |

Auto Expert John
Cadogan

Automotive

Page 10/80

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Engineering |

Careers and

Where to Begin

**IEEE - State-of-
the art**

**techniques for
advanced vehicle
dynamics control
& vehicle
state estimation**

~~Tesla Model Y |~~

~~Review &~~

~~Road Test~~

~~Braking Dynamics~~

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~~Vehicle Dynamics~~
~~| Location of~~
~~Center of~~
~~gravity | Effects~~
~~of CG on~~
~~handling~~
~~behavior | Load~~
~~transfer~~ Vehicle
Dynamics Lecture
#1: CG, Load
Transfer, Accel,
Braking,
Cornering,
Friction Circle

ATLIS Progress

Page 12/80

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Report: Vehicle
Dynamics System
~~Motor Vehicle
Dynamics~~

The current
COVID-19
pandemic and its
increasing
spread across
the globe, led
to the
imposition of
restrictions by
various

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governments on
travel and
Dynamics
trade, drawing a
negative outlook
on the power ...

~~Power Sports
Aftermarket
Growth Dynamics
By Vehicles,
Sales Channel
And Regional
Outlook To 2027~~

The report

Page 14/80

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Vehicle
Dynamics
covers a very
methodical
quantitative and
qualitative
analysis of the
New Energy
Vehicle Drive
Motor market.
The study
evaluates many
aspects of this
industry by
examining its
historical ...

Download File PDF Motor Vehicle

~~New Energy
Vehicle Drive
Motor Market
Size, Analysis,
Growth, Trends,
and Forecast to
2028~~

The report New
Energy Vehicle
Drive Motor
Market Size and
Analysis
maintains

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enhanced

dynamics and is
overshadowed by

a top player

across the

globe. The

research report

provides New

Energy Vehicle

...

~~Global New~~

~~Energy Vehicle~~

~~Drive Motor~~

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~~Market Size,~~

~~Analysis Revenue~~

~~Share to~~

~~Increase At~~

~~17.7% CAGR~~

~~Through 2025~~

Fundamentals of
Vehicle Dynamics

by world-
recognized
expert, Dr.

Thomas D.
Gillespie.

Originally

Page 18/80

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published nearly
30 years ago,
the book

introduces the
fundamental
properties of
motor vehicles

...

~~SAE~~

~~International~~

~~Publishes~~

~~Revised Edition~~

~~of "Fundamentals~~

Page 19/80

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~~of Vehicle~~

~~Dynamics~~

A new

informative

report titled as

“Global New

Energy Vehicle

Drive Unit

Market Size,

Status and

Forecast

2021-2027”

provides

estimations of

Download File

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Vehicle Dynamics
the size of the
global market
and share and
size of key ...

~~New Energy
Vehicle Drive
Unit Market 2021
by Global Key
Players, Types,
Applications,
Countries,
Industry Size
and Forecast to~~

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~~2027~~ Vehicle

On July 17th,
Davinci Dynamics
will celebrate
its 2021 OPEN
DAY and
officially
launch its first
electric
motorcycle
model: DC100. As
an electric
motorcycle, the
DC100 has

Download File

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powerful
performance that
can ...

~~Davinci Dynamics
is set to launch
DC100, a new
powerful offer
of electric
motorcycle~~

Google acquired
the independent
Boston Dynamics
in 2013 as part

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of ... for a
company that
could make the
jump. Hyundai
Motor Group is a
top-5 vehicle
manufacturer
thanks to owning
Hyundai Motor
...

~~Boston Dynamics~~
~~is officially~~
~~part of Hyundai~~

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~~Motor Group~~

If you are a
Automotive High
Performance
Electric
Vehicles
manufacturer or
deal in
Automotive High
Performance
Electric
Vehicles market
then this
research

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document will
help you
understand the
Sales & ...

~~Automotive High
Performance~~

~~Electric~~

~~Vehicles Market
to Register~~

~~Growth of~~

~~~33.94%, See Why~~

~~Pages Report]~~

~~Surge in~~

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implementation  
of fuel-  
efficient  
mobility  
solutions and  
lowered prices  
of batteries per  
KWH fuel the  
growth of the  
global high-  
voltage hybrid  
vehicle market.  
Asia-Pacific  
held ...

# Download File PDF Motor Vehicle

~~High Voltage  
Hybrid Vehicles  
Market to Garner  
\$484.81 Billion  
by 2030: Allied  
Market Research~~  
Hyundai Motor  
Company released  
global brand  
ambassador BTS's  
video "Welcome  
to the Family  
with BTS" where

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Vehicle  
Dynamics  
they dance to  
the IONIQ brand  
music with

Boston

Dynamics's

robots Spot and

Atlas. In this

...

~~Hyundai Motor~~

~~Company releases~~

~~video of BTS~~

~~dancing with~~

~~robot dogs Spot~~

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PDF Motor

~~& Atlas~~

You might know  
Boston Dynamics  
as the makers of  
the adorable ...  
Many robots are  
used in  
manufacturing  
vehicles already  
and Hyundai  
Motor India  
claimed that  
their most  
recent product,

Download File

PDF Motor

Vehicle  
the Alcazar ...

Dynamics

~~Hyundai Motor~~

~~Group acquires~~

~~Boston Dynamics:~~

~~What it could~~

~~mean for the~~

~~future of~~

~~mobility~~

Ph.D. student

Robbin van Hoek

has designed a

new platform for

automated

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## PDF Motor

vehicles that integrates the benefits of cooperative and autonomous vehicles. The framework is an important step toward ...

~~New platform allows autonomous vehicles to~~



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~~safely drive at~~

~~small distances~~

Hyundai Motor

Group now holds  
an 80% stake in  
Boston Dynamics,  
while SoftBank  
retains ...

Hyundai U.S.  
retail sales up  
36% in June ,  
eco-friendly  
vehicles +639%

...

# Download File PDF Motor Vehicle

~~Hyundai Motor  
Group completes  
Boston Dynamics  
acquisition~~

Hyundai Motor  
Group Chairman  
Chung Euisun  
last week  
visited Boston  
Dynamics in the  
US to discuss  
... create  
synergy between

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robotics,  
autonomous  
vehicles, urban  
air mobility and  
smart factories  
...

~~Hyundai Motor  
buys US firm  
Boston Dynamics  
for \$880 mn~~

Latest released  
the research  
study on Global

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Two Wheeler  
Accessories  
Market, offers a  
detailed  
overview of the  
factors  
influencing the  
global business  
scope. Two  
Wheeler  
Accessories  
Market research  
...

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PDF Motor

~~Two Wheeler~~

~~Accessories~~

~~Market SWOT~~

~~Analysis by Key~~

~~Players: Suzuki~~

~~Motor, Hero~~

~~Motocorp, Bajaj~~

~~Auto~~

TVS NTORQ 125

Race XP is the  
only scooter in  
the 125cc

segment to have  
more than 10 PS

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## PDF Motor

power, according  
to the company.

~~TVS Motor~~

~~launches NTORQ~~

~~125 Race XP~~

~~edition. Check~~

~~features and~~

~~other details~~

TVS NTORQ 125

ushered in a new

era of

connectivity,

power, and style

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Vehicle  
Dynamics

to the Indian  
scooter  
industry. TVS  
NTORQ 125 Race  
XP is set to  
redefine it. It  
has a path-  
breaking  
technology  
deployed on its  
...

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Road Vehicle

Dynamics

supplies

students and

technicians

working in

industry with

both the

theoretical

background of

mechanical and

automotive

engineering, and

the know-how



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PDF Motor

needed to

perform

numerical

simulations.

Bringing

together the

foundations of

the discipline

and its recent

developments in

a single text,

the book is

structured in

three parts: it

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Vehicle Dynamics  
begins with a historical overview of road vehicles; then deals with the forces exchanged between the vehicle and the road, and the vehicle and the air; and finally, deals with the dynamic behavior of the

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Vehicle in  
normal driving  
conditions with  
some extensions  
towards  
conditions  
encountered in  
high-speed  
racing. Coverage  
of contemporary  
automatic  
controls is  
included in this  
edition.

# Download File PDF Motor Vehicle

The book starts with an historical overview of road vehicles. The first part deals with the forces exchanged between the vehicle and the road and the vehicle and the air with the aim

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of supplying the physical facts and the relevant mathematical models about the forces which dominate the dynamics of the vehicle. The second part deals with the dynamic behaviour of the vehicle in

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Vehicle Dynamics  
normal driving  
conditions with  
some extensions

towards

conditions

encountered in

high-speed

racing driving.

Contents: Short

Historical Notes

on Motor

Vehicles Forces

Acting between

Road and

Download File

PDF Motor

WheelRoad

Vehicle Aerodyna  
micsLongitudinal

DynamicsHandling  
of a Rigid

VehicleMotor

Vehicle on

Elastic

SuspensionsRoad

Accidents

Readership:

Mechanical

engineers.

keywords:Motor

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Vehicle

Dynamics; Motor  
Vehicle

Handling; Motor  
Vehicle

Comfort; Motor  
Vehicle

Stability; Motor  
Vehicle

Simulation; Motor  
Vehicle Aerodyna  
mics; Motor

Vehicle Suspensi  
ons; Tires; Road A



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Vehicle-Driver  
Dynamics

Interaction “... ”

the author

provides an

interesting and

comprehensive

treatment of a

very complicated

subject ... it

would be a good

addition to the

bookshelf of any

engineer with an

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PDF Motor

interest in  
vehicle dynamics  
or general  
automotive  
technology.”

Applied  
Mechanics  
Reviews

The book starts  
with an  
historical  
overview of road  
vehicles. The

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Vehicle Dynamics  
first part deals with the forces exchanged between the vehicle and the road and the vehicle and the air with the aim of supplying the physical facts and the relevant mathematical models about the forces which

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PDF Motor

Vehicle Dynamics  
dominate the dynamics of the vehicle. The second part deals with the dynamic behaviour of the vehicle in normal driving conditions with some extensions towards conditions encountered in

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high-speed  
racing driving.

This book covers the principles and applications of vehicle handling dynamics from an advanced perspective in depth. The methods required to analyze and

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optimize vehicle

handling

dynamics are

presented,

including tire

compound

dynamics,

vehicle planar

dynamics,

vehicle roll

dynamics, full

vehicle

dynamics, and in-

wheel motor

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PDF Motor

vehicle

dynamics. The provided vehicle dynamic model is capable of investigating drift, sliding, and other over-limit vehicle maneuvers. This is an ideal book for postgraduate and research students and

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Vehicle  
Dynamics  
engineers in  
mechanical,  
automotive,  
transportation,  
and ground  
vehicle  
engineering.

An introduction  
to vehicle  
dynamics and the  
fundamentals of  
mathematical  
modeling

*Page 56/80*



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## PDF Motor

Fundamentals of Vehicle Dynamics and Modeling is a student-focused textbook providing an introduction to vehicle dynamics, and covers the fundamentals of vehicle model development. It illustrates the

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process for  
construction of  
a mathematical  
model through  
the application  
of the equations  
of motion. The  
text describes  
techniques for  
solution of the  
model, and  
demonstrates how  
to conduct an  
analysis and

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interpret the results. A significant portion of the book is devoted to the classical linear dynamic models, and provides a foundation for understanding and predicting vehicle behaviour as a

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consequence of  
the design  
parameters.

Modeling the  
pneumatic tire  
is also covered,  
along with  
methods for  
solving the  
suspension  
kinematics  
problem, and  
prediction of  
acceleration and

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Vehicle

braking performance. The book introduces the concept of multibody dynamics as applied to vehicles and provides insight into how large and high fidelity models can be constructed. It

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## PDF Motor

includes the development of a method suitable for computer implementation, which can automatically generate and solve the linear equations of motion for large complex models. Key features: ? Accompanied by a

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website hosting

MATLAB® code. ?

Supported by the

Global Education

Delivery

channels.

Fundamentals of

Vehicle Dynamics

and Modeling is

an ideal

textbook for

senior

undergraduate

and graduate

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PDF Motor

courses on  
vehicle  
dynamics.

The authors  
examine in  
detail the  
fundamentals and  
mathematical  
descriptions of  
the dynamics of  
automobiles. In  
this context  
different levels



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PDF Motor

Vehicle Dynamics  
of complexity

will be  
presented,

starting with  
basic single-  
track models up  
to complex three-  
dimensional  
multi-body  
models. A  
particular focus  
is on the  
process of  
establishing

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PDF Motor

mathematical models on the basis of real cars and the validation of simulation results. The methods presented are explained in detail by means of selected application scenarios.

# Download File PDF Motor Vehicle

The authors  
examine in  
detail the  
fundamentals and  
mathematical  
descriptions of  
the dynamics of  
automobiles. In  
this context  
different levels  
of complexity  
will be  
presented,

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Vehicle Dynamics  
starting with  
basic single-  
track models up  
to complex three-  
dimensional  
multi-body  
models. A  
particular focus  
is on the  
process of  
establishing  
mathematical  
models on the  
basis of real

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cars and the  
validation of  
simulation  
results. The  
methods  
presented are  
explained in  
detail by means  
of selected  
application  
scenarios.

This book covers  
the principles

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and applications  
of vehicle  
handling  
dynamics from an  
advanced  
perspective in  
depth. The  
methods required  
to analyze and  
optimize vehicle  
handling  
dynamics are  
presented,  
including tire

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PDF Motor

Vehicle  
Dynamics  
compound  
dynamics,  
vehicle planar  
dynamics,  
vehicle roll  
dynamics, full  
vehicle  
dynamics, and in-  
wheel motor  
vehicle  
dynamics. The  
provided vehicle  
dynamic model is  
capable of

Download File

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Investigating  
drift, sliding,  
and other over-  
limit vehicle  
maneuvers. This  
is an ideal book  
for postgraduate  
and research  
students and  
engineers in  
mechanical,  
automotive,  
transportation,  
and ground



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PDF Motor

vehicle  
engineering.  
Dynamics

This textbook covers handling and performance of both road and race cars.

Mathematical models of vehicles are developed always

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Vehicle Dynamics  
paying attention  
to state the  
relevant

assumptions and  
to provide  
explanations for  
each step. This  
innovative  
approach  
provides a deep,  
yet simple,  
analysis of the  
dynamics of  
vehicles. The

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Vehicle Dynamics  
reader will soon achieve a clear understanding of the subject, which will be of great help both in dealing with the challenges of designing and testing new vehicles and in tackling new research topics. The book deals

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Vehicle  
Dynamics

with several  
relevant topics  
in vehicle  
dynamics that  
are not  
discussed  
elsewhere and  
this new edition  
includes  
thoroughly  
revised  
chapters, with  
new  
developments,

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Vehicle Dynamics  
and many worked  
exercises.

Praise for the  
previous

edition: Great  
book! It has

changed

drastically our  
approach on many

topics. We are  
now using part

of its theory on  
a daily basis to

constantly

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improve ride and  
handling  
performances.

--- Antonino

Pizzuto, Head of  
Chassis

Development

Group at Hyundai  
Motor Europe

Technical Center  
Astonishingly

good! Everything  
is described in  
a very

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Vehicle  
Dynamics  
compelling and  
complete way.

Some parts use a  
different  
approach than  
other books. ---

Andrea

Quintarelli,

Automotive

Engineer

Copyright code :

0a7bb77fd9de0cee

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**Vehicle**  
7a47bd4d47654a15

**Dynamics**