

A Course Material on  
**Automobile Engineering**

**Author Page**

At first I like to submit my sincere thanks to GOD, PARENTS and FRIENDS who have helped and encouraged me to prepare this entire course material for the subject of Automobile Engineering.

Automobile Engineering is a vast field encompassing different types of vehicles used for transportation of people and materials. It is very difficult to cover all the aspects of automobile engineering in single notes, because vehicles are being refined and improved day by day. However an attempt is made in this course material to give the maximum possible details of fundamentals of the automobile vehicles.

It is always challenging to decide whether historical notes should come before or after the description and interpretation of the state of the art. Arguing for the second alternative is the fact that readers should already have understood the motivations that drive a design decision.

We begin this chapter with basis of automobile, and through by the transmissions and steering systems, going on later to describe wheels, tires and braking & suspension systems. This emphasis is solely due to the larger impact that suspensions and steering systems have on vehicle architecture and its consequent evolution; steering systems will be described together with suspensions because these two systems are indissoluble from the point of view of designers.

**Knowing is not enough, We must apply.**

**Willing is not enough, We must do.**

**ALL the BEST**

T.Manokaran ME,MBA

Assistant Professor

Department of Mech.Engg.

# Anna University Automobile Engineering Notes

**M. Razi Nalim, R. Vasudevan, Sameer  
Rahatekar**

## **Anna University Automobile Engineering Notes:**

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) U. Chandrasekhar, Lung-Jieh Yang, S. Gowthaman, 2018-12-14 The book includes the best articles presented by researchers academicians and industrial experts at the International Conference on Innovative Design and Development Practices in Aerospace and Automotive Engineering I DAD 2018 The book discusses new concept in designs and analysis and manufacturing technologies for improved performance through specific and or multi functional design aspects to optimise the system size weight to strength ratio fuel efficiency and operational capability Other aspects of the conference address the ways and means of numerical analysis simulation and additive manufacturing to accelerate the product development cycles Describing innovative methods the book provides valuable reference material for educational and research organizations as well as industry wanting to undertake challenging projects of design engineering and product development Recent Advances in Mechanical Engineering Sasmeeta Tripathy, Sikata Samantaray, J. Ramkumar, S. S. Mahapatra, 2023-05-30 This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development ICRAMERD 2022 focusing on the recent advances and best practices of mechanical engineering related technologies and sciences to meet the challenges in mechanical engineering digital technology and smart manufacturing The contents focus on design engineering advanced materials automation in engineering industrial and systems engineering energy and others Some of the topics discussed here include fracture and failure analysis fuels and alternative fuels non conventional machining combustion and IC engines advanced manufacturing technologies powder metallurgy and rapid prototyping industrial engineering and automation supply chain management design of mechanical systems vibrations and control engineering automobile engineering performance analysis of biomass energy systems heat transfer composite materials thermal modelling and simulations of different systems analysis of slurry pipeline systems waste management optimization and robotics The wide range of topics presented in this book will be useful for beginners researchers as well as professionals in mechanical engineering Advances in Automotive Technologies M. Razi Nalim, R. Vasudevan, Sameer Rahatekar, 2020-09-01 This book contains selected papers from the International Conference on Progress in Automotive Technologies ICPAT 2019 The contents focus on several aspects of the automobile industry from design to manufacture and the challenges involved therein The book covers latest research trends in the automotive domain including topics such as aerodynamic design vehicle sensors and electronics engine combustion modeling noise and vibration in vehicles electric and hybrid vehicles automotive tribology and battery and fuel cell technologies The book highlights the use of emerging technologies to tackle the growing environmental challenges This book will be of interest to students researchers as well as professionals working in automotive engineering and allied fields Emerging Trends in Science, Engineering and Technology S Sathiyamoorthy, B. Elizabeth Caroline, J Gnana Jayanthi, 2012-12-14 The present book is based on the research

papers presented in the International Conference on Emerging Trends in Science Engineering and Technology 2012 held at Tiruchirapalli India The papers presented bridges the gap between science engineering and technology This book covers a variety of topics including mechanical production aeronautical material science energy civil and environmental energy scientific management etc The prime objective of the book is to fully integrate the scientific contributions from academicians industrialists and research scholars

*Recent Advances in Energy Technologies* N. Lakshmi Narasimhan, Mahmoud Bourouis, Vasudevan Raghavan, 2022-09-29 This book presents the select proceedings of the first International Conference on Energy and Materials Technologies ICEMT 2021 organized by the Department of Mechanical Engineering Sri Sivasubramaniya Nadar College of Engineering Kalavakkam India It covers the recent technologies in two broad thematic areas energy and materials Various topics covered in this book include hybrid energy advanced energy systems energy management energy policy geothermal nuclear energy bio energy waste to energy power plants and automotives The book will be useful for students researchers and professionals in the area of mechanical engineering especially various domains of energy

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The Alumni Quarterly and Fortnightly Notes ,1919      **The Automotive Chassis** Giancarlo Genta, Lorenzo Morello, 2019-12-24 This textbook draws on the authors experience gained by teaching courses for engineering students on e g vehicle mechanics vehicle system design and chassis design and on their practical experience as engineering designers for vehicle and chassis components at a major automotive company The book is primarily intended for students of automotive engineering but also for all technicians and designers working in this field Other enthusiastic engineers will also find it to be a useful technical guide The present volume The Automotive Chassis Volume 1 Component Design focuses on automotive chassis components such as the structure which is usually a ladder framework and supports all the remaining components of the vehicle the suspension for the mechanical linkage of the wheels the wheels and tires the steering system the brake system and the transmission system used to apply engine torque to the driving wheels This thoroughly revised and updated second edition presents recent developments particularly in brake steering suspension and transmission subsystems Special emphasis is given to modern control systems and control strategies

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