

AU3402 - Automotive Chassis Syllabus

Regulation 2021 Anna University

Introduction, Frame, Steering System

Types of Chassis layout, with reference to Power Plant location and drive, various types of frames, Loads acting on vehicle frame, Constructional details and materials for frames, Testing of frames, Types of Front Axles and Stub Axles, Front Wheel Geometry, Condition for True Rolling Motion of Wheels during Steering, Ackerman's and Davis Steering Mechanisms, Steering Error Curve, Steering Linkages, Different Types of Steering Gears, Slip Angle, Over-Steer and Under-Steer, Reversible and Irreversible Steering, EPAS.

1

Propeller Shaft And Final Drive

Effect of Driving Thrust, torque reactions and side thrust, Hotchkiss drive, torque tube drive, radius rods and stabilizers, Propeller Shaft, Universal Joints, Constant Velocity Universal Joints, Front Wheel drive, Final drive, different types, Double reduction and twin speed final drives, Multi-axled vehicles, Differential principle and types, Differential housings, limited speed differential, Differential locks.

2

Axles And Tyres

Construction and Design of Drive Axles, Types of Loads acting on drive axles, Full - Floating, Three-Quarter Floating and Semi-Floating Axles, Axle Housings and Types - Lift axle, Dead axle, Types and Constructional Details of Different Types of Wheels and Rims, Different Types of Tyres and their constructional details.

3

Suspension System

Need for Suspension System, Types of Suspension Springs, Constructional details and characteristics of Single Leaf, Multi-Leaf, Coil, and Torsion bar, Rubber, Pneumatic and Hydro - elastic Suspension Spring Systems, Independent Suspension System, Shock Absorbers, Types and Constructional details.

4

Braking System

Theory of Automobile Braking, Stopping Distance Time and Braking Efficiency, Effect of Weight Transfer during Braking, Theory of Drum Brakes, Leading and Trailing Shoes, Braking Torque, Constructional Details of Drum Brake and its Activators, Disc Brake Theory, Types and Construction, Hydraulic Braking System, Mechanical Braking System, Pneumatic Braking System, Power-Assisted Braking System, Anti-Lock Braking System, Constructional Details.

5

Anna University Notes For At2252 Automotive Chassis

David C. Barton, John D. Fieldhouse



Anna University Notes For At2252 Automotive Chassis:

Automotive Chassis Engineering David C. Barton, John D. Fieldhouse, 2024 Written for students and practising engineers working in automotive engineering this book provides a fundamental yet comprehensive understanding of chassis systems and requires little prior knowledge on the part of the reader It presents the material in a practical and realistic manner using reverse engineering as a basis for examples to reinforce understanding of the topics The specifications and characteristics of vehicles currently on the market are used to exemplify the theory's application and care is taken to connect the various topics covered so as to clearly demonstrate their interrelationships This second edition is fully updated and revised throughout and includes a new chapter on vehicle deceleration behaviour The book opens with a chapter on basic vehicle mechanics which includes the forces acting on a vehicle in motion assuming a rigid body The new chapter on vehicle deceleration behaviour introduces the basic concepts of a conventional foundation braking system before considering means of optimising the deceleration performance of any wheel braked vehicle based on the tyre road adhesion characteristics The next chapter focuses on vehicle dynamics by considering suspension systems and how the important components of the system the tyres linkages springs dampers etc interact to give the required performance characteristics for the vehicle The book then proceeds to a chapter on steering systems which provides readers with a firm understanding of the principles and forces involved under static and dynamic loading The chapter on chassis structures and materials outlines analysis tools typically finite element analysis and design features that are used to reduce mass and increase occupant safety in modern vehicles The final chapter on noise vibration and harshness NVH includes a basic overview of acoustic and vibration theory and makes use of extensive research investigations and practical experience as a means of addressing NVH issues In all subject areas the authors take into account the latest trends anticipating the move towards electric vehicles on board diagnostic monitoring active systems and performance optimisation The book features a number of worked examples and case studies based on recent research projects All students including those on Master level degree courses in automotive engineering and professionals in industry who want to gain a better understanding of vehicle chassis engineering will benefit from this book

Unveiling the Magic of Words: A Review of "**Anna University Notes For At2252 Automotive Chassis**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Anna University Notes For At2252 Automotive Chassis**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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