

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

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Table of Contents Anna University Notes For At2252 Automotive Chassis

1. Understanding the eBook Anna University Notes For At2252 Automotive Chassis
 - The Rise of Digital Reading Anna University Notes For At2252 Automotive Chassis
 - Advantages of eBooks Over Traditional Books
2. Identifying Anna University Notes For At2252 Automotive Chassis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anna University Notes For At2252 Automotive Chassis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anna University Notes For At2252 Automotive Chassis
 - Personalized Recommendations
 - Anna University Notes For At2252 Automotive Chassis User Reviews and Ratings
 - Anna University Notes For At2252 Automotive Chassis and Bestseller Lists
5. Accessing Anna University Notes For At2252 Automotive Chassis Free and Paid eBooks
 - Anna University Notes For At2252 Automotive Chassis Public Domain eBooks
 - Anna University Notes For At2252 Automotive Chassis eBook Subscription Services
 - Anna University Notes For At2252 Automotive Chassis Budget-Friendly Options

6. Navigating Anna University Notes For At2252 Automotive Chassis eBook Formats
 - ePub, PDF, MOBI, and More
 - Anna University Notes For At2252 Automotive Chassis Compatibility with Devices
 - Anna University Notes For At2252 Automotive Chassis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anna University Notes For At2252 Automotive Chassis
 - Highlighting and Note-Taking Anna University Notes For At2252 Automotive Chassis
 - Interactive Elements Anna University Notes For At2252 Automotive Chassis
8. Staying Engaged with Anna University Notes For At2252 Automotive Chassis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anna University Notes For At2252 Automotive Chassis
9. Balancing eBooks and Physical Books Anna University Notes For At2252 Automotive Chassis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anna University Notes For At2252 Automotive Chassis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anna University Notes For At2252 Automotive Chassis
 - Setting Reading Goals Anna University Notes For At2252 Automotive Chassis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anna University Notes For At2252 Automotive Chassis
 - Fact-Checking eBook Content of Anna University Notes For At2252 Automotive Chassis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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