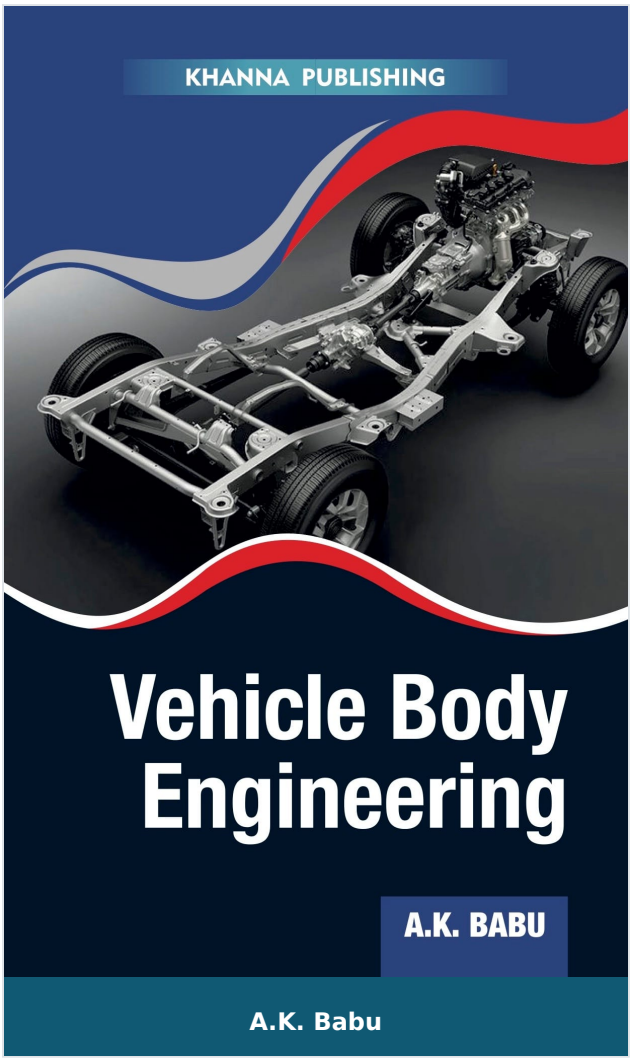

Vehicle Body Engineering

Author :	A.K. Babu
ISBN 13 :	978-93-90779-01-7
ISBN 10 :	9390779014
E-ISBN 13 :	978-93-90779-01-7
Edition :	First
Pages :	176
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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Product Description

This book is designed for students undertaking a subject 'Vehicle Body Engineering/Auto Body Engineering' in the undergraduate and postgraduate programme of Automobile Engineering as per the latest revised syllabus of all Indian Universities. The book Provides a clear explanation of vehicle body parts and systems with unique illustrations. Each chapter takes the reader systematically through the details of each type of vehicle body such as car body, bus body, commercial vehicle body, etc. Key topics are emphasized and are reinforced by numerous illustrations. The book should also be a valuable source of information and reference.-

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- Introduction
- Car body Details
- Bus body Details
- Commercial vehicle details
- Vehicle aerodynamics
- Body materials, trim, mechanisms and body repair
- Bibliography
- Index

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

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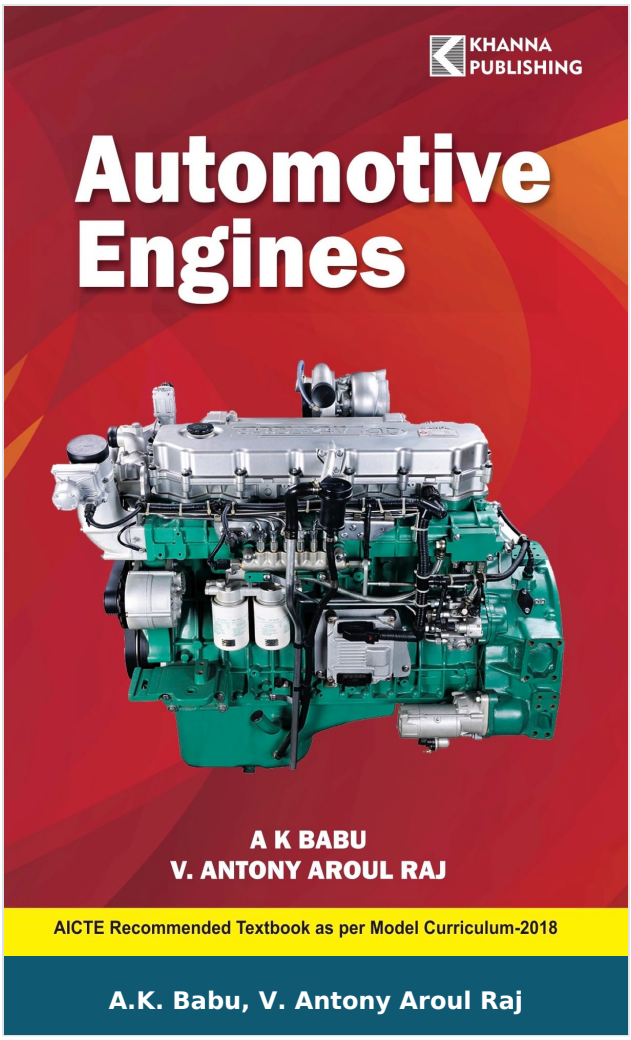

Automotive Engines

Author :	A.K. Babu, V. Antony Aroul Raj
ISBN 13 :	978-93-86173-15-7
ISBN 10 :	9386173158
E-ISBN 13 :	978-93-86173-15-7
Edition :	First
Pages :	296
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
Categories :	Automobile Engineering, University Recommended, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book is designed to meet the requirements of the students of Mechanical Engineering and Automobile Engineering. It is based on the latest syllabi prescribed by different Technical Colleges and Universities in India. Each chapter is describes in simple, non-technical language and explains by clear illustrations that how engine parts and systems are constructed, how the part works, and what is required to maximize performance in terms of power, speed, economy and safety.

The important short and long review questions which the are included at the end of each chapter are taken from previous semesters question papers of various Technical colleges and Universities. This book is intended to be used as a Text and for Reference by colleges and technical universities offering subjects like Automotive Engines and Internal Combustion Engines.

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- Engines
- Fuel Systems
- Combustion in Engines
- Turbocharging and Supercharging
- Engine Testing
- Cooling and Lubrication
- Emission and Control
- Review Question

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

V. Antony Aroul Raj

V. Antony Aroul Raj Dr.V.Antony Aroul Raj is a Professor in the Department of Mechanical Engineering, SRM Easwari Engineering College, Chennai, India. He has over 15 years of research and teaching experience. Dr.V.Antony Aroul Raj obtained B. E. Degree in Mechanical Engineering from the Pondicherry Engineering College (1993) and a Ph.D in

Energy Engineering from the Anna University, Chennai, India (2011). He has received the best project award for his PG project. He has worked in the air-conditioning Industry for 4 years and installed about 60 plants. He has more than 10 research publications in International Journals with high impact factors and in various conferences in India and abroad. He is a Life member of ISHRAE and SAE.

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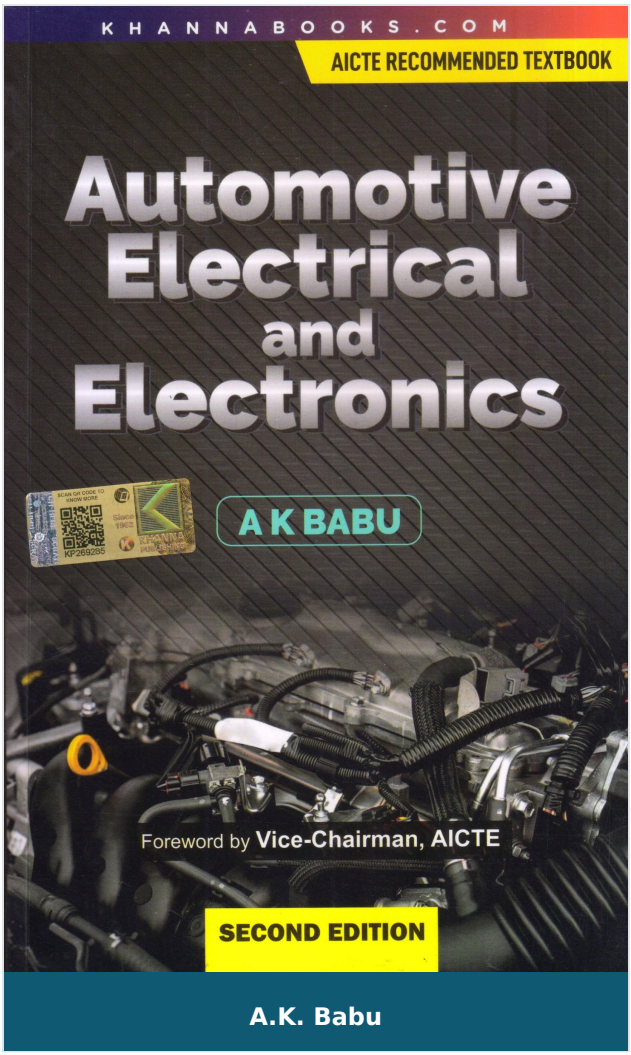

Automotive Electrical and Electronics

Author :	A.K. Babu
ISBN 13 :	978-93-82609-69-8
ISBN 10 :	9382609695
E-ISBN 13 :	978-93-82609-69-8
Edition :	Second
Pages :	380
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Automobile Engineering, University Recommended, Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

Automobile engineering is a field that has been witnessing tremendous technological developments in recent years, noteworthy among them being next generation hybrid cars and self-driving cars. This book is designed for students who take up the study of the subject 'Automotive Electrical and Electronics' as part of the curriculum requirements of the Automobile Engineering Degree as per the latest revised syllabus of all Indian Universities. The book offers a clear introduction to the Electrical and Electronics Components and Systems used in modern today's vehicles with the aid of several illustrations to facilitate easy comprehension and full understanding. It is anticipated that this comprehensive book will be a valuable source of information and reference to not only undergraduate and postgraduate students but also to the teaching fraternity. Key topics are given due emphasis and important concepts are reinforced with the help of numerous illustration enabling better understanding. It is sincerely hoped that this resource and reference book, written with the intention to provide a sound grounding, will ignite young minds and spark the desire for learning.

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- Lighting System
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- Chapter
- Microcomputer Controlled Devices
- Index

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

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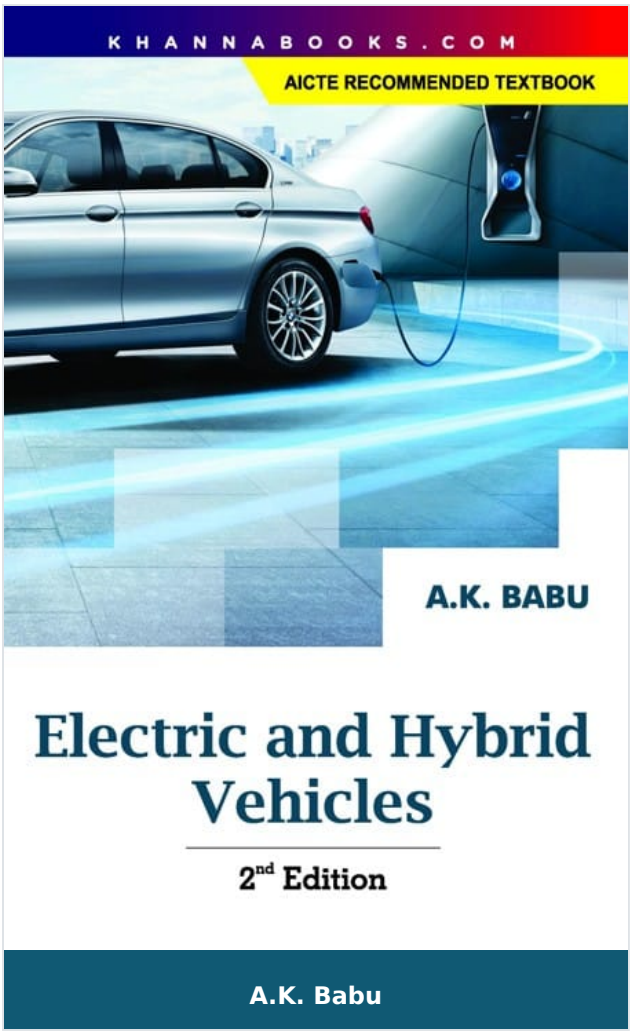

Electric & Hybrid Vehicles

Author :	A.K. Babu
ISBN 13 :	978-81-95123-15-5
ISBN 10 :	8195123155
E-ISBN 13 :	978-81-95123-15-5
Edition :	Second
Pages :	212
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Automobile Engineering, University Recommended, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book is written to be easy to read and to meet the critical skill requirements of students studying Automobile Engineering, Mechanical Engineering and Electrical Engineering. The content is organized into 25 easy-to understand chapters. The fundamentals, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs) are all covered in this book. it covers the performance, configuration, and control strategy of several electric and hybrid electric vehicles in details. Colleges and technical universities offering core and elective subjects like Electric and hybrid Vehicles and New Generation Vehicles can utilize this course book as a textbook and major reference book.

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- Transmission in EVs
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- Steering System for EVs and HEVs
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- Brake System For EVs
- Best Electric and Hybrid Cars.

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

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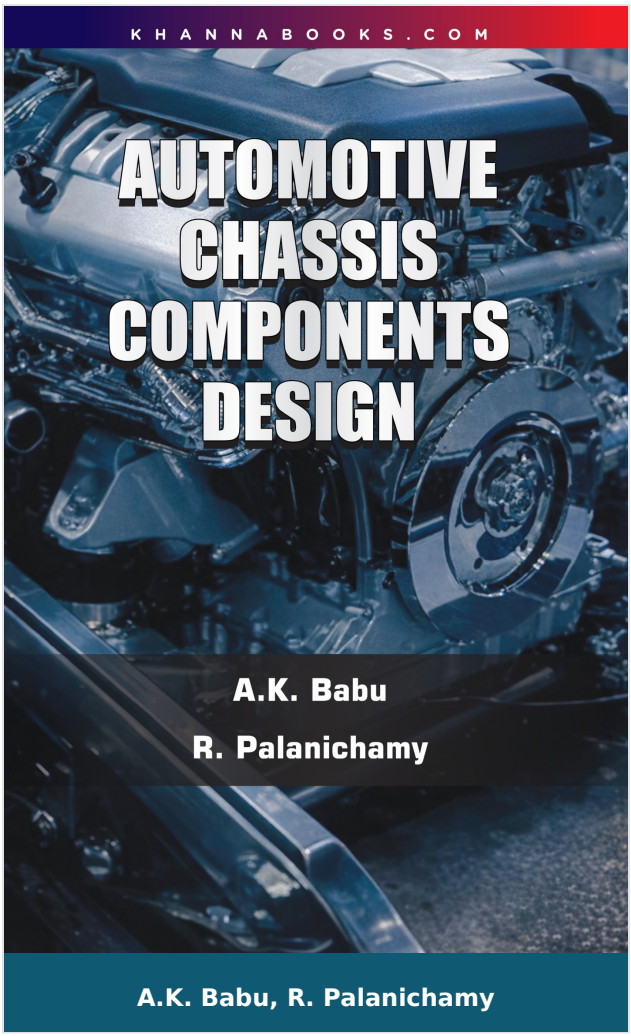

Automotive Chassis Components Design

Author :	A.K. Babu, R. Palanichamy
ISBN 13 :	978-93-55387-70-7
ISBN 10 :	9355387709
E-ISBN 13 :	978-93-55387-70-7
Edition :	First
Pages :	214
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 345.00
Categories :	New Arrivals, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

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Product Description

Automotive Chassis Components Design

Automotive Chassis Components Design is a comprehensive academic and professional guide dedicated to the intricate engineering of a vehicle’s skeletal and foundational systems. Authored by A. K. Babu, the text serves as a vital bridge between theoretical mechanics and practical automotive design, focusing on the five basic components that define a modern automobile: the power plant, chassis, power train, body, and accessories. The book provides an in-depth exploration of the “running gear,” including the frame, suspension, steering, brakes, and wheels—systems that directly impact riding comfort, vehicle stability, and safety.

Designed for students of automotive and mechanical engineering, as well as practicing professionals in the automotive industry, the book maintains a rigorous academic tone while ensuring concepts are accessible through detailed diagrams and solved problems. Its core theme revolves around the functional integration of components to withstand dynamic and static loads, optimize maneuverability, and ensure passenger comfort. From the design of heavy-duty truck frames to the precise gear ratios of synchromesh gearboxes, this text provides the analytical tools required to design safe and efficient modern vehicles.

Salient Features:

• **Comprehensive Frame Analysis**: Detailed study of conventional, integral, and semi-integral frames, focusing on materials like carbon steel and their resistance to vertical bending and torsion.

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- Introduction
- Vehicle Frame
- Clutch
- gearbox
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- Final Drive
- Front Axie
- Rear Axie
- Suspension
- Steering

Author

A.K. Babu

A.K. Babu A.K.Babu is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry. A.K.Babu, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K.Babu has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003.

R. Palanichamy

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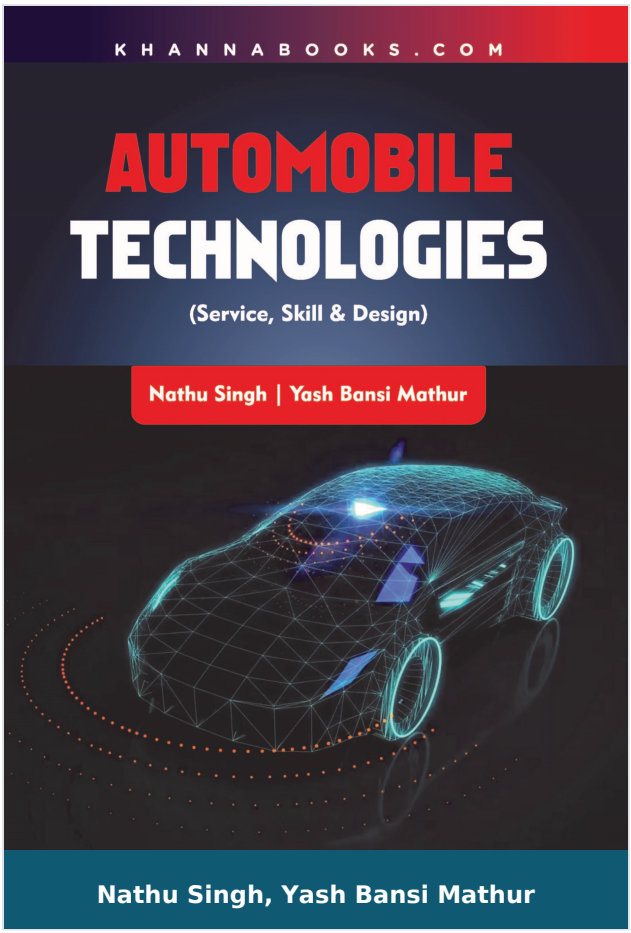

Automobile Technologies (Service, Skill & Design)

Author :	Nathu Singh, Yash Bansi Mathur
ISBN 13 :	978-93-55380-48-7
ISBN 10 :	9355380488
E-ISBN 13 :	978-93-55380-48-7
Edition :	First
Pages :	332
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 299.00
Categories :	New Arrivals, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

To award Certificate/Diploma/Advanced Diploma/ Degree level Professional courses to the technicians and engineers and to provide vertical mobility vertical mobility in the Service, Skills and Design stream of automotive sector, some model curriculum has been designed by the Technical Boards and Technical Universities has included in the book. The book consists of Motor Vehicle Technology, Automotive Systems, Drawing and Design. These systems are very useful for all level of technicians covering some practical and theoretical knowledge and technics of Automotive field. After studying the book, the person would acquire relevant and appropriate technical skill together with the professional competencies in the automotive fields, so that he may properly prepare to take gainful employment in the field.

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- Automobile Engine Cooling and Fuels
- Fuel Systems of Diesel Engines
- Fuel Systems of Petrol Engines and Carburetors
- Petrol Engine Injection, Performance and Testing Systems
- Unit-3: Automotive System Design
- Design of Clutches and Gear-Box
- Design of Propeller Shats and Axles
- Design of Brake Systems
- Design of Suspension and Steering System
- Statistical Consideration in Design and Optimization
- Unit-4 Automotive System Design
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- Free hand Diagram of the Main Systems of the Vehicle
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- Design of the Main Components of an Automobile Engine

Author

Nathu Singh

Nathu Singh,

Yash Bansi Mathur

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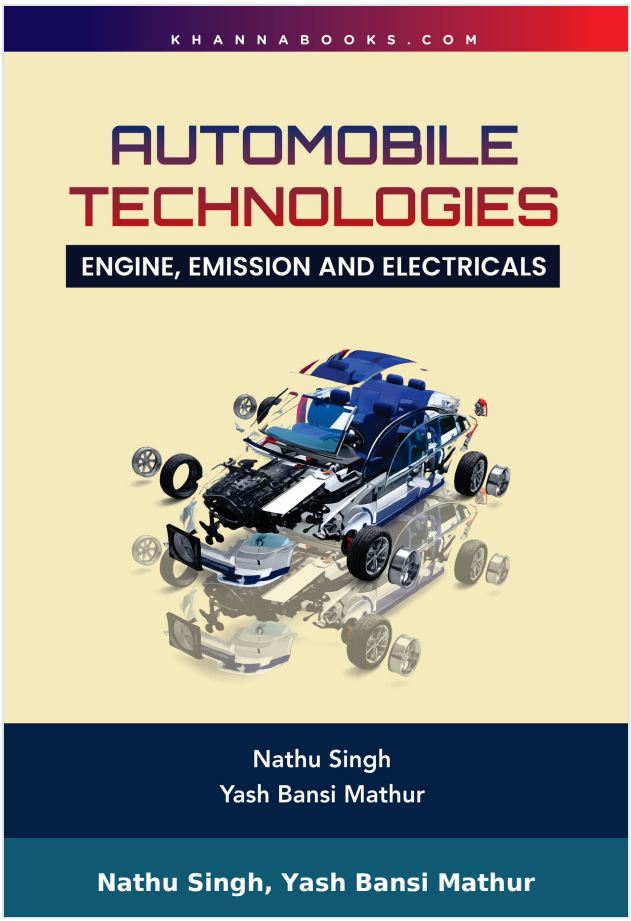

Automobile Technologies (Engine, Emission And Electricals)

Author :	Nathu Singh, Yash Bansi Mathur
ISBN 13 :	978-93-55389-63-3
ISBN 10 :	9355389639
E-ISBN 13 :	978-93-55389-63-3
Edition :	First
Pages :	280
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	New Arrivals, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

Automobile Technologies (Engine, Emission And Electricals)

Automobile Technology-II is a comprehensive and academically rigorous guide designed to provide a deep dive into the advanced mechanical and electrical systems of modern vehicles. Developed in alignment with the latest National Education Policy, this textbook bridges the gap between foundational automotive principles and the rapidly evolving technological trends of the current market. The authors, Nathu Singh and Yash Bansi Mathur, meticulously cover critical areas including advanced engine designs, sophisticated vehicle control mechanisms, and the intricate electrical systems that define contemporary automotive engineering.

The book's primary purpose is to equip readers with both the theoretical knowledge and the practical technical skills necessary for professional competency in the automotive field. By exploring the relationship between heat, work, and gas properties through thermodynamics, and providing detailed breakdowns of components like reciprocating engines and ignition systems, it offers a holistic view of vehicle performance and efficiency. This makes it an essential resource for students of automobile engineering, professional technicians seeking to upgrade their skills, and researchers interested in the latest advancements in fuel economy, emission reduction, and vehicle safety. Whether you are preparing for gainful employment or looking to master complex engine supercharging techniques, this book serves as a definitive roadmap for excellence in automobile technology.

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- **Specialized Engine Components**: A thorough breakdown of reciprocating and rotating engine parts, including pistons, crankshafts, and the unique working principles of Wankel engines and gas turbines.
- **Cutting-Edge Electrical Systems**: Comprehensive guides to engine starting circuits, digital ignition systems, and modern lighting technologies such as halogen-quartz and sealed beam headlamps.
- **Advanced Induction Techniques**: Dedicated sections on engine supercharging, turbocharging, and scavenging processes aimed at improving engine power and volumetric efficiency.
- **Practical Vehicle Maintenance:** Technical focus on wheel alignment parameters like caster, camber, and toe, alongside common failure diagnostics for automotive air-conditioning systems.
- **Future-Ready Fuel Technologies**: Insightful discussion on the production and application of alternative fuels, such as methanol produced from biomass or solid waste, for sparking ignition engines.

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- : Automobile Electrical Equipment -II
- : Alternative Fuel and Emission Control -II

Author

Nathu Singh

Nathu Singh,

Yash Bansi Mathur

Yash Bansi Mathur

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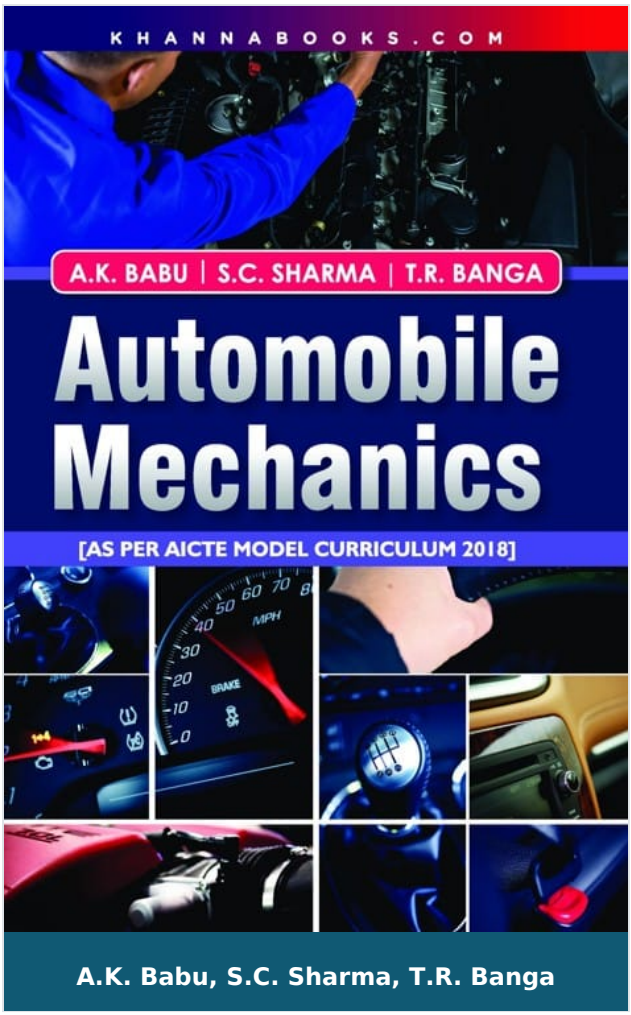

Automobile Mechanics

Author :	A.K. Babu, S.C. Sharma, T.R. Banga
ISBN 13 :	978-93-86173-01-0
ISBN 10 :	9386173018
E-ISBN 13 :	978-93-86173-01-0
Edition :	First
Pages :	512
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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Product Description

The book is designed to become a valid source of information to assist the student both in and out of the classroom to attain his or her objective. the structure of the text book is as follows:

Chapter 1 is an introduction to the book, covering the basic information on automobiles.

Chapter 2 deals with engines and their auxiliary units.

Chapters 3-10 cover several aspects of design of automobile components - SI system, background mathematics and advice on problem solving, particularly exam questions.

Chapters 11-15 cover essential theory part of support system for vehicles. Numerous designs and fully worked problems are provided at the end of the chapter. It is expected that as the student works through the examples and problems, he or she will develop a greater understanding of the mathematics required for engineering. To help the student develop a sound grasp of the principles covered there are many diagrams, notes and applications as an aid to develop knowledge and facilitate understanding.

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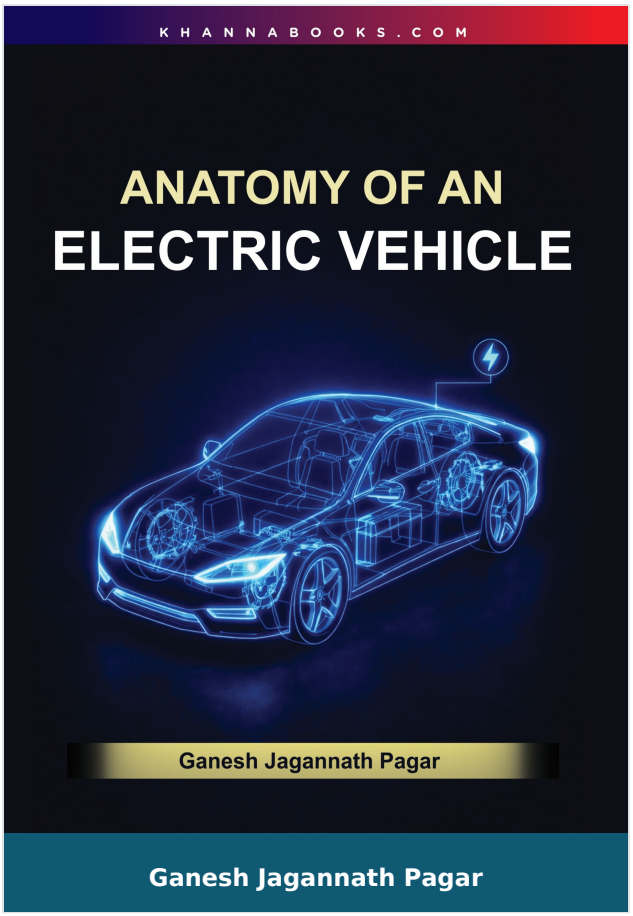

Anatomy of An Electric Vehicle

Author :	Ganesh Jagannath Pagar
ISBN 13 :	978-93-74547-99-1
ISBN 10 :	9374547996
E-ISBN 13 :	978-93-74547-99-1
Edition :	First
Pages :	164
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	New Arrivals, Automobile Engineering, Book Store
Condition Type :	New
Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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Product Description

Anatomy of An Electric Vehicle

This book has been written with a simple and clear purpose, to help readers understand electric vehicles in an easy and practical way. As a teacher and an author, I have often noticed that many students and technology enthusiasts are curious about EVs, but they get overwhelmed by complicated technical terms. This book is my effort to make that journey easier and more enjoyable.

In these pages, you will learn how electric vehicles work, their key components, vehicle layouts, and battery technologies. I have also explained how EVs compare with conventional vehicles, along with insights into the growth of electric mobility in India, important government policies, and real-world examples from leading manufacturers. Every topic is presented step by step in simple language so that beginners, students, and technical learners can build strong fundamentals without feeling lost.

My aim is not only to share information but to build real understanding and confidence about the future of mobility. I truly hope this book encourages readers to explore further, keep learning, and become part of the exciting and evolving world of electric vehicles.

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