



Academic Institutions, and through lifetime memberships in several professional societies. An accomplished researcher and academic achiever, he has authored numerous research papers, book chapters, and conference publications, inspiring generations of students and colleagues alike.

About the author

Dr. Intezar Mahdi is an eminent scholar and academician in the field of Mechanical Engineering and Tribology. With over two decades of progressive academic leadership and rich administrative experience, he currently serves as the Principal of University Polytechnic and the Proctor of Phase-3 at Integral University, Lucknow. Holding a Ph.D. in Tribology and M.Tech. & B.Tech. degrees in Mechanical Engineering, Dr. Mahdi has made significant contributions as a member of the Board of Studies, the Council of

About the book

Automobile Engineering is a comprehensive guide designed to equip students, professionals, and enthusiasts with a solid understanding of the principles, design, and functioning of modern automobiles. Covering both fundamental concepts and advanced technologies, this book serves as a valuable resource for learners at various stages of their academic or professional journey.

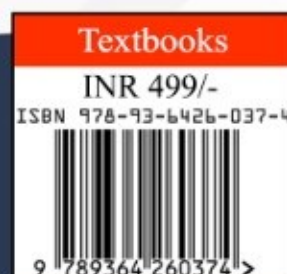
The text begins with the basics of vehicle layout, engine types, and power transmission systems, progressing into detailed discussions on automotive components such as the engine, gearbox, brakes, suspension, steering, and electrical systems. It explains the science behind internal combustion engines, alternative powertrains, and emerging trends like electric vehicles and hybrid technology.

Special emphasis is given to maintenance practices, safety systems, emission control, and environmental considerations, helping readers understand the engineering solutions required for efficient, safe, and sustainable mobility. The book also includes real-world case studies, diagrams, and simplified explanations to make complex topics accessible.

Aligned with current industry standards and academic curricula, this book integrates theoretical knowledge with practical insights. It is ideal for diploma and degree students in mechanical and automobile engineering, as well as practicing engineers looking to update their knowledge. By blending technical accuracy with clarity, Automobile Engineering ensures readers not only grasp how vehicles work but also develop the analytical skills to innovate and solve problems in the automotive field.



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