

# Internal Combustion Engine Hn Gupta

FUNDAMENTALS OF INTERNAL COMBUSTION ENGINES, SECOND EDITION  
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Internal Combustion Engine

Fundamentals  
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Proceedings of the 1999 Fall Technical Conference of the ASME Internal

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providing a comprehensive introduction to the basics of internal combustion engines this book is suitable for undergraduate level courses in mechanical engineering aeronautical engineering and automobile engineering postgraduate level courses thermal engineering in mechanical engineering a m i e section b courses in mechanical engineering competitive examinations such as civil services engineering services gate etc in addition the book can be used for refresher courses for professionals in auto mobile industries coverage includes analysis of processes thermodynamic combustion fluid flow heat transfer friction and lubrication relevant to design performance efficiency fuel and emission requirements of internal combustion engines special topics such as reactive systems unburned and burned mixture charts fuel line hydraulics side thrust on the cylinder walls etc modern developments such as electronic fuel injection systems electronic ignition systems electronic indicators exhaust emission requirements etc the second edition includes new sections on geometry of reciprocating engine engine performance parameters alternative fuels for ic engines carnot cycle stirling cycle ericsson cycle lenoir cycle miller cycle crankcase ventilation supercharger controls and homogeneous charge compression ignition engines besides air standard cycles latest advances in fuel injection system in si engine and gasoline direct injection are discussed in detail new problems and examples have been added to several chapters key features explains basic principles and applications in a clear concise and easy to

read manner richly illustrated to promote a fuller understanding of the subject si units are used throughout example problems illustrate applications of theory end of chapter review questions and problems help students reinforce and apply key concepts provides answers to all numerical problems

the book covers analysis of processes thermodynamic combustion fluid flow heat transfer friction and lubrication relevant to design performance efficiency fuel and emission requirements of internal combustion engines besides it also includes special topics such as reactive systems fuel line hydraulics side thrust on the cylinder walls etc and modern developments such as electronic fuel injection systems electronic ignition systems electronic indicators exhaust emission requirements etc most importantly the third edition introduces two new chapters on advanced combustion engines and electrical vehicles the first chapter includes advanced low temperature combustion modes such as hcci pcci and rcci models it also includes flexible fuel vehicle and gdc engine whereas the latter chapter on electric vehicles discusses bev hev and fuel cell vehicle key features explains basic principles and applications in a clear concise and easy to read manner richly illustrated to promote a fuller understanding of the subject si units are used throughout example problems illustrate applications of theory end of chapter review questions and problems help students reinforce and apply key concepts provides answers to all numerical problems target audience providing a comprehensive introduction to the basics of internal combustion engines this book is suitable for b tech in mechanical engineering aeronautical engineering and automobile engineering m tech thermal engineering in mechanical engineering a m i e section b courses in mechanical engineering competitive examinations such as civil services engineering services gate etc in addition the book can be used for refresher courses for professionals in automobile industries

this text by a leading authority in the field presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines an extensive illustration program supports the concepts and theories discussed

first published as v 2 of the author s the internal combustion engine

prior to 1862 when the department of agriculture was established the report on agriculture was prepared and published by the commissioner of patents and forms volume or part of volume of his annual reports the first being that of 1840 cf checklist of public documents washington 1895 p 148

innovative text focusing on engine design and fluid dynamics with numerous illustrations and a web based software tool

concern about the reduced availability and the increased cost of petroleum fuels prompted great efforts in recent years to reduce the fuel consumption of auto mobiles the ongoing efforts to reduce fuel consumption have addressed many relevant factors including increased engine performance reduced friction use of lightweight materials and reduced aerodynamic drag the results of the investigations assessing the various factors affecting fuel economy have been published in journals conference proceedings and in company and government reports this proliferation of technical information makes it difficult for workers to keep abreast of au developments the material presented in this book brings together in a single volume much of the relevant materials summarizes many of the state of the art theories and data and provides extensive lists of references thus it is hoped that this book will be a useful reference for specialists and practicing engineers interested in the fuel economy of automobiles j c hilliard o s springer vii contents 1 automotive fuel economy david cole i introduction and background 1 n fuel economy factors 9 a engine 11 b drive train 20 c vehicle factors 22 d operating factors 28 e test cycles 32 references 33 2 fuel economy and emissions j t kummer i introduction 35 n emission regulations

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