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Fully updated third edition incorporating recent developments in engine modelling and analysis, combustion processes, fuels, and engine performance. Since the publication of the Second Edition in 2001, there have been considerable technical advances and developments in the field of internal combustion engines.

Internal Combustion Engines: Applied Thermosciences: Colin ...

About the Author. Colin R. Ferguson was the author of the first edition of Internal Combustion Engines in 1986, and was listed on the 2001 second edition for continuity. He did not participate in the second edition, and for continuity was listed in the second edition as an affiliate faculty member in Mechanical Engineering at Colorado State University.

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Internal combustion engine ... used in applications other than vehicles, for example, engines used in lawn mowers, snow blowers, chainsaws, pumps, and generators, are currently being regulated, since they also have been found to be significant sources of hydrocarbon and carbon monoxide pollution.

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The course considers thermodynamic, combustion, heat transfer and friction phenomena, and fuel properties, relevant to engine power, efficiency and emissions, and examines design features and operating characteristics of different types of internal combustion engines; including spark-ignition, diesel, stratified-charge, and mixed-cycle engines.

MME 4423b - Internal Combustion Engines

Focusing on thermodynamic analysis--from the requisite first law to more sophisticated applications--and engine design, here is a modern introduction to internal combustion engines and their mechanics. It covers the many types of internal combustion engines, including spark ignition, compression ignition, and stratified charge engines, and examines processes, keeping equations of state simple ...

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Building upon the foundation of the first edition, the book has been completely revised, with each chapter reorganized and updated. The purpose of the book is to apply the principles of thermodynamics, fluid mechanics, and heat transfer to the analysis of internal combustion engines. The text also features modern web-based computational methods.

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Internal Combustion Engines: Applied Thermosciences, 3rd ...

thermal sciences, to internal combustion engines. The goals of the text are to familiarize the reader with engine nomenclature, describe how internal combustion engines work, and provide insight into how engine performance can be modeled and analyzed. An internal combustion engine is defined as an engine in which the chemical energy of the fuel is

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