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John B. Heywood is a British mechanical engineer known for his work on automotive engine research, for authoring a number of field-defining textbooks on the internal combustion engine, and as the director of the Sloan Automotive Lab at the Massachusetts Institute of Technology (MIT).

*John B. Heywood (engineer) - Wikipedia*

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Heywood is recognized as one of the world's preeminent experts on internal combustion engines. In the late 1960s, Heywood joined MIT's Sloan Automotive Lab, where he started researching why engines created air pollutants and how the amount of those pollutants could be reduced. Heywood thrived in this important emerging area of study. His research over the past five decades has substantially increased our understanding of how engines work, how they can be designed to reduce their ...

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Heywood, J.B., Internal Combustion Engine Fundamentals, 932 pages, McGraw-Hill, 1988. Heywood, J.B., and Sher, E., The Two-Stroke Cycle Engine: Its Development, Operation, and Design, 451 pages, Taylor and Francis, 1999.

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He has published over 230 technical papers and is the author of five books, including the first edition of Internal Combustion Engine Fundamentals. About the Author John B. Heywood has been a faculty member at the Massachusetts Institute of Technology since 1968, where he was Sun Jae Professor of Mechanical Engineering and Director of the Sloan Automotive Laboratory.

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This book addresses the two-stroke cycle internal combustion engine, used in compact, lightweight form in everything from motorcycles to chainsaws to outboard motors, and in large sizes for marine propulsion and power generation. It first provides an overview of the principles, characteristics, applications, and history of the two-stroke cycle engine, followed by descriptions and evaluations of various types of models that have been developed to predict aspects of two-stroke engine operation.

This book examines internal combustion engine technology and applications of biodiesel fuel. It includes seven chapters in two sections. The first section examines engine downsizing, fuel spray, and economic comparison. The second section deals with applications of biodiesel fuel in compression-ignition and spark-ignition engines. The information contained herein is useful for scientists and students looking to broaden their knowledge of internal combustion engine technologies and applications of biodiesel fuel.

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