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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).

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Internal combustion engine is a heat engine which transforms chemical energy into mechanical energy. It is used in powered aircrafts, jet engines, turbo engines, helicopters, etc. This text attempts to understand the multiple branches that fall under the discipline of internal combustion engines and how such concepts have practical applications.

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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. He has published over 230 technical papers and is the author of five books, including the first edition of Internal Combustion Engine Fundamentals.

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Energy and transportation interface, Internal combustion engines, Transportation fuels. Dr. John B. Heywood has been a faculty member at MIT since 1968, where he has been Sun Jae Professor of Mechanical Engineering and director of the Sloan Automotive Laboratory. His interests are focused on

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