   (A good basic text on engines from the 1950s with modest updating in 1968; much excellent descriptive material.)

   (A basic text now out of print and somewhat dated.)

   (A much expanded version of reference 2; an advanced text with extensive material on engine design practice of the 1950s and 60s).

   (An elementary text used primarily for undergraduate teaching.)

   (A good basic text on all types of combustion engines, now somewhat dated.)

   (A Russian text with an excellent ordering of subject material.)

   (A comprehensive text on engine emissions; now somewhat dated.)

   (A fundamental text on the alternative engines to the internal combustion engine.)

   (A book which reviews modern automotive engine practice; contains descriptions of design and operation of engines and engine components.)

    (Excellent text on the design and operation of Wankel engines.)

    (Contains much technical and historical information on the Wankel engine.)

    (A set of contributed chapters on different emissions topics; some chapters are still useful.)


15. Should We Have a New Engine? An Automobile Power Systems Evaluation, Volume I. Summary, Jet Propulsion Laboratory, California Institute of Technology, JPL SP 43-17, August 1975. (Popular summary of study which evaluates the internal combustion engine and its alternatives.)

Should We Have a New Engine? An Automobile Power Systems Evaluation, Volume II, Technical Reports, Jet Propulsion Laboratory, California Institute of Technology, JPL SP 43-17, August 1975. (Extensive study of design and operating characteristics of internal combustion engines and alternative engines for automobile use.)


(Extensive and detailed monograph on in-cylinder engine processes and methods of analysis.)

(A set of contributed chapters on engine and vehicle factors which affect fuel economy; some are excellent.)

(An introductory text appropriate to a survey undergraduate course on engines.)

(A new text focusing primarily on Thermal/Fluids Science aspects of engine operation.)

(A concise and useful summary of technical data on engine and vehicle components and systems.)

(An extensive text and professional reference on the fundamentals behind engine operation and design.)

(A practical guide to and description of automotive electrical systems.)

(A collection of contributed chapters on gasoline and diesel engines, turbocharged engines and automotive fuels; some are good.)

(A monograph with simple programs focused on two-stroke gasoline engine design issues and their underlying principles.)

(An extensive compilation of information on gasolines and diesel fuels and their effects on engine operation.)

(A useful source of practical information on engines, transmissions and vehicles.)

(A resource for detailed information on gasolines, carburetors, fuel injection systems, and the mixture formation process.)

(A review and useful introduction to the various models now available for engine processes.)

(A readily understandable review of catalyst fundamentals and application to vehicles.)

(An update and extension of Blair’s earlier book; extensive information on small high-performance two-stroke spark-ignition engines.)

(An extensive set of chapters, by different authors, on four-stroke and two-stroke cycle spark-ignition and diesel engine operation and emissions, and fuel effects.)

(An introductory text on IC engine fundamentals.)

(A valuable reference volume on combustion processes in different practical systems, including IC engines, with extensive information on fuels.)

(A comprehensive summary of the technical literature on two-stroke cycle engine processes which govern its operation and its design.)

(A review of air pollutant formation processes and sources, and control approaches.)

(A concise handbook with data on transportation emissions, their impact, and ways to control their magnitude.)

(An extensive handbook on the theory, design, and applications of diesel engines.)

(A handbook with extensive practical details on gasoline spark-ignition engines and their management and control.)

(A handbook with extensive practical details on diesel engines, their emissions, and their management and control.)

(Multi-author volume on direct injection gasoline and diesel engines, focusing on the different practical approaches to direct injection of liquid fuel into the cylinder.)
(A text on the theory and methodology for analyzing unsteady gas flows in engine manifolds.)

(A comparison text to #49, focusing on application of unsteady gas flow analysis tools to engine manifold design.)

(A description of engine simulations, largely developed in the author’s laboratory, and their application to four-stroke engine performance prediction and design.)

(A new edition of #27: An introductory text focusing on the thermal science processes important to internal combustion engine operations.)

(A monograph on two-stroke cycle gasoline engines, the origins of their emissions and methods of control.)

(A detailed monograph on engine exhaust gas treatment—catalysts, particulate filters—as well as exhaust treatment system issues.)

(Analysis based text, focused primarily on engine dynamics, structural design, and automated diesel engine control.)

(An extensive review of the literature on GDI engine performance, combustion, efficiency, and emissions, and the state of GDI engine development.)