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to gas turbine and rocket propulsion for aerospace and mechanical engineers. Textbook coverage has been revised and expanded, including a new chapter on compressible flow. Design concepts are introduced early and integrated throughout.

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A gas turbine, also called a combustion turbine, is a type of continuous and internal combustion engine. The main elements common to all gas turbine engines are: an upstream rotating gas compressor; a combustor; a downstream turbine on the same shaft as the

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compressor.

**Gas turbine - Wikipedia**

Elements of Propulsion - Gas Turbines  
and Rockets, by J. D. Mattingly, AIAA  
Education Series, 2006 (ISBN  
1-56347-779-3). Call # TL709.M388  
2006(This book has a comprehensive  
treatment of gas turbine cycle analysis).



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5. Fundamentals of Jet Propulsion with Applications, by R. D. Flack, Cambridge University Press, 2005 (ISBN 0-521-81983-0).

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Appendix E: Turbomachinery Stresses and Materials. E.1 Introduction. Even though the focus of this textbook is the aerothermodynamics of the gas turbine engine, the importance of the engine structure is also very significant. Because of its importance, this appendix ...

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## **Appendix E: Turbomachinery Stresses and Materials ...**

Analysis and design of major gas turbine engine components (fans, compressors, turbines, inlets, nozzles, main burners, and afterburners). According to Jim Cantrell (one of SpaceX 's founding engineers), this book is one of the five

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that SpaceX CEO Elon Musk borrowed from him and never returned (Source: Quora).

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