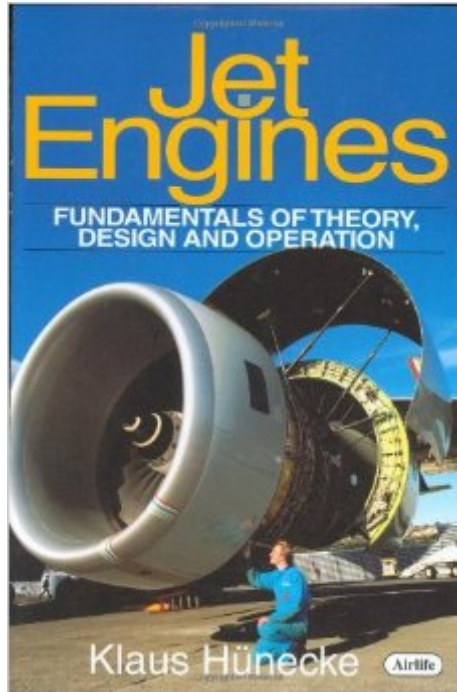


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# Jet Engines: Fundamentals Of Theory, Design And Operation



## Synopsis

This book is intended for those who wish to broaden their knowledge of jet engine technology and associated subjects. It covers turbojet, turboprop and turbofan designs and is applicable to civilian and military usage. It commences with an overview of the main design types and fundamentals and then looks at air intakes, compressors, turbines and exhaust systems in great detail.

## Book Information

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## Customer Reviews

This book lets you see how a real engine operates, not how an idealized, thermodynamically perfect, one does. It's a shame that more books on jet engine technology do not touch on the real world aspects of designing, constructing, and maintaining a turbine engine like this one does. It is a little brief, but would complement a good book on propulsion thermodynamics.

Perhaps the most friendly book on the complex mechanics of the modern turbine engine. The author break down the stages of the working jet engine chapter by chapter beginning with intake follow by compressor, etc. A must reading for any commercial pilot upgrading to turbine engine, power plant mechanics trainees, or anyone who is interested in fundamental workings of a jet turbine engine.

I AM AN AIRCRAFT MECHANIC WITH 15 YEARS OF EXPERIENCE IN AVIATION.I WANTED TO FURTHER MY KNOWLEDGE AND UNDERSTANDING OF JET ENGINES. A STEP BEYOND THE

BASIC FACTS THAT THERE IS A COMPRESSOR, A COMBUSTION CHAMBER, A TURBINE AND SO ON....."JET ENGINES FUNDAMENTALS..." BY "KLAUS HUNECKE" TURNED OUT TO BE AN EXCELLENT CHOICE I MADE ON MY FIRST BOOK IN THIS SUBJECT. THE AUTHOR HAS DONE AN EXCELLENT JOB IN EXPLAINING THE THEORY BEHIND THE DESIGN AND OPERATION OF JET ENGINES. THE BOOK GIVES YOU A GOOD UNDERSTANDING OF THE DIFFERENCES BETWEEN TURBOJET, TURBOFAN AND TURBOSHAFT ENGINES. WHY THE COMPRESSOR BLADES HAVE A TWIST IN THEIR CONSTRUCTION AND WHY AN ENGINE INSTALLED ON A FIGHTER JET NEEDS TO HAVE A DIFFERENT INLET DESIGN THAN AN AIRLINER....MOST OF ALL THESE COMPARISONS AND DESIGN FEATURES ARE FURTHER EXPLAINED BY LAWS OF PHYSICS AND FLUID-MECHANICS. I THINK AN ENTHUSIAST WITH SOME KNOWLEDGE OF LAWS OF PHYSICS, THERMODYNAMICS AND FLUID MECHANICS IS THE ONE WHO WOULD FULLY BENEFIT AND APPRECIATE THE CONTENTS OF THIS BOOK.

After reading historical stuff on Whittle, Hooker, Skunk Works, and various other "JET" sources, I was hoping this book would give me lots of good info. It does - but it doesn't. Spotty information. Sometimes really excellent, other times irritatingly brief and you're turning the page to find... a new topic. Overall yes, I'd say buy it - but don't expect it to be a "great" read. It really needs some reworking to help it.

The good: Information dense introduction to jet engines. Written for engineers and others with a basic understanding of thermodynamics and fluid dynamics. The bad: College level text written for engineers and others with a basic understanding of thermodynamics and fluid dynamics. If your technical education consists of Popular Science and Wikipedia, buy a different book. Overall: Worth the cost.

This book was exactly what I was looking for. I am a third year mechanical engineering student interning with Honeywell. I have a good understanding of mechanical systems in general, but no prior experience with turbine engines. I just wanted a book that I could read in a week or so that would help me understand the basics (What is a stator? How do these things generate thrust? etc.) This book was very dry, but to the point, which I appreciated.

This is a wonderful book for the price. It by no means will make you an aerospace engineer, but if you're wanting a more in depth knowledge of how turbines work this book will take you to that next

level. Like I said, not a college level text book, but if you want to know more than "suck, squeeze, bang, blow" this book is a great place to start.

Quite techy, despite the assurance in the preface that "no maths" will be involved. Not sure what he calls two full pages of equations on supersonic computational fluid dynamics, if not "maths." In fact, the book is heavy on supersonic flow, how to change engine design to mitigate shockwaves, etc. It's this author's field, and it shows. Definitely assumes an engineering background and a solid knowledge of physics and undergraduate-level math for those in the sciences.

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