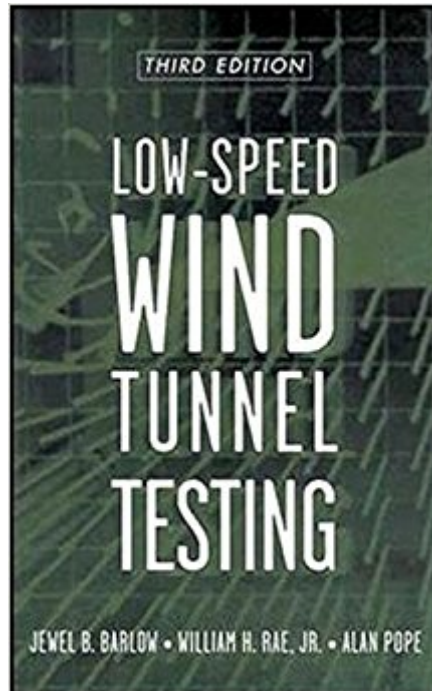




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# Low-Speed Wind Tunnel Testing



## Synopsis

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, Low-Speed Wind Tunnel Testing, Third Edition is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

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A revision of the standard book in the field of wind tunnel work. Updated to include the new electronic instrumentation and digital computers now in common use. Covers tunnel design, calibration, and the interfacing of computers and instrumentation. --This text refers to an out of print or unavailable edition of this title.

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, Low-Speed Wind Tunnel Testing, Third Edition is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

Very technical, very informative. Primarily for the graduate level engineer.

This is a must have book for anyone who is interested in wind tunnel testing. Well organized and a range of useful topics. Should be well worn and in a place of easy access on any test engineers desk. A reference that you'll be checking every test you do, multiple times, planning, trouble shooting, and tunnel corrections to data.

It's a great book for experimental and teorical studies.

great condition

This is the only book that contains everything one needs to know about sub sonic wind tunnel. For students doing a project or a course in experimental fluid mechanics, or those whose work involve aerodynamics, this will be a good reference. Anyone who has been through fluid mechanics courses during their undergraduate years know the importance of wind tunnel testing. This book covers topics from wind tunnel designs, to measurements, boundary corrections, testing procedures and the nonaeronautical applications of wind tunnel. However, as wind tunnel is initially design and most widely use in the study of aeronautics, one needs to have some knowledge in aerodynamics in order to fully understand and appreciate this book.

That's a very interesting book, for everyone who likes aerodynamics and wind tunnel. I'm finding it very useful. And it's a pleasure to read it whenever!!!

The original is the one book everyone in the wind tunnel test area had open on their desk. It covered everything from overall theory of aerodynamic testing to details of wind tunnel design. The revision brings it up to date with use of computers and digital test gear.

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