

Hot-Wire Anemometry

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Principles and Signal Analysis

H. H. Bruun



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This book is a comprehensive, easy-to-access reference book for students, engineers and researchers engaged in the practical use of any aspect of 'hot wire' anemometry (HWA). The book introduces the logical framework for a computer based HWA system and identifies the individual steps in the complete experimental procedure ranging from probe selection through to presentation of analysed data. HWA is based on convective heat transfer from a heated wire or film element placed in a fluid flow. Any changes in the fluid flow conditions which affect the heat transfer from the heated element can be studied with HWA. This book explains the concepts and related practical implementations of all major HWA applications, and has been structured in such a way that it is of direct value to both people with little practical knowledge of HWA as well as to researchers with considerable experience in the field.

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