

Heat Transfer of a Cylinder in Crossflow

A. Žukauskas and J. Žiugžda,
Ed. G. F. Hewitt

First, the reader of this book will rightly ask 'Why a Monograph on such a limited subject', with the present proliferation of heat transfer publications. The answer is to be found in the Preface – that this is only the first volume of a series of seven books with the cover title 'Experimental and Applied Heat Transfer Guide Books', translated from original in Russian and edited by A. Žukauskas. The series represents the work by the Academy of Sciences of Lithuanian SSR, with four volumes dealing essentially with 'Crossflow in Tube Banks' and three volumes with 'Flow in Channels'. The authority of Academician Žukauskas on the subject matter virtually guarantees attention.

While serious workers in the particular field are aware of the original publications (some already translated) which reflect the status of the art as of about 1978, translation into English of the entire series will no doubt promote the use of the material and data, and is therefore a welcome addition.

This first volume of the Series reviewed here, is divided into eight Chapters, covering (a) Experimental techniques; (b) Analytical techniques; (c) Fluid flow dynamics; (d) Local and average heat transfer, followed

by a comprehensive summary. A substantial Appendix includes a perfect documentation of all the data, considered to be of highest quality. Of particular interest are the data on elliptical tubes, at high Pr Number (up to 300) and in channel 'blockage'.

The text is written in clear language and is well organized, for which credit goes to the editor G. Hewitt. There is no doubt that this summarized treatment of Academician Žukauskas' work will constitute a prominent reference in the general literature, but the ultimate effect will not be realized until the other parts of the series will be published. Indeed this reviewer questions why the seven parts could not be contracted into more manageable two or three Volumes.

Jerry Taborek
University Karlsruhe,
Karlsruhe, FRG

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8th International Heat Transfer Conference	17–22 August 1986 San Francisco, CA, USA
7th International Fluid Power Symposium	16–18 September 1986 Bath, UK
5th International Conference on Pressure Surges	22–24 September 1986 Hannover, FRG
ASME Winter Annual Meeting: International Symposium on Pressure and Temperature Measurement	30 November–5 December 1986 San Francisco, CA, USA
Australian Fluid Mechanics Conference	8–12 December 1986 Auckland, New Zealand
10th BPMA Technical Conference on Pumps	24–26 March 1987 Cambridge, UK
Large Scale Applications of Heat Pumps	25–27 March 1987 Oxford, UK
11th International Conference on Fluid Sealing	8–10 April 1987 Cannes, France
International Conference on Flow Induced Vibrations	12–14 May 1987 Bowness-on-Windermere, UK
3rd International Conference on Multi-Phase Flow	18–20 May 1987 The Hague, The Netherlands
6th Turbulent Shear Flow Symposium	7–9 September 1987 Toulouse, France

Chang-Lin Tien, Department of Mechanical Engineering, University of California, Berkeley, CA 94720, USA

BHRA, The Fluid Engineering Centre, Cranfield, Bedford MK43 0AL, UK

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

Dr J. H. Kim, Electric Power Research Institute, 3412 Hillview Avenue, PO Box 10412, Palo Alto, CA 94303, USA

AFMC Conference Committee, c/o Dr P. S. Jackson, Dept of Mechanical Engineering, Auckland University, Private Bag, Auckland, New Zealand

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

BHRA Fluid Engineering Centre, Cranfield, Bedford MK43 0AJ, UK

Professor F. W. Schmidt, Secretary, Dept of Mechanical Engineering, The Pennsylvania State Univ., University Park, PA 16802, USA