## **BOOK REVIEW**

Eck, B. Technische Strömungslehre 8., neubearb. Aufl.

**Band 1:** Grundlagen. 1978. 264 Abb., 5 Tab. X, 242 Seiten. Gebunden DM 68,--; U.S. \$37.40. Springer-Verlag, Berlin-Heidelberg-New York. ISBN 3-540-08635-8

Professor Eck has decided to split an integrated treatment of Applied Fluid Mechanics into Fundamentals and Applications, and uses this as an opportunity for a change in presentation and updating of some chapters.

Volume I deals with Fundamentals and the change in presentation assumes that the reader is well conversant with rigorous mathematical treatment, which is reduced in many cases to a mere quotation of formulae, followed by a discussion of their physical significance in considerable detail. The attempt to make this volume a self contained entity resulted in the inclusion of some material, which is really concerned with applications, such as losses in fittings, drag and others.

The treatment of friction, separation and other flow phenomena has been up-dated, however a wider mention of turbulence concepts could be well warranted under the heading of Fundamentals.

The only real shortcoming is perhaps in the chapter of Flow Measurement where some of the latest developments in accoustic, magnetic and optical flow measurements are not included, and a fuller treatment of cavitation and two-phase flow might have also formed a useful addition to the Fundamentals.

On the whole this volume does seem to accomplish the task set by the author, which is to present a clear review of fundamental phenomena encountered in the field of Applied Fluid Mechanics in a lucid form most useful to a practicing engineer seeking a quick and meaningful reference. The book is produced to the usual high standards associated with Springer publications and continues to fill the gap in the presentation of the subject of Fluid Mechanics in a form directly useful to the engineering profession and in particular to mechanical and process engineers.

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