



Fluvial Hydraulics: Flow and Transport Processes in Channels of Simple Geometry

By Walter H. Graf

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Written by an expert with thirty years experience in the field, this is a concise review of the hydrodynamic concepts and calculation procedures, upon which fluvial hydraulics is built.

The first part is devoted to steady uniform and non-uniform as well as unsteady flow in open channels. The second part deals with transport phenomena, including sediment transport and local scour, turbidity currents and mixing processes in open channels.

The volume is divided into nine chapters of unequal length which are autonomous and self-contained. The subject matter presented in each chapter is usually followed by a number of solved exercises, accompanied by a detailed discussion of the solution procedure. Unsolved problems are given at the end of each chapter.

The book is written in a user-friendly style and has a double vocation. It will readily serve as a textbook for undergraduate and/or graduate students as well as a handbook for the professionals dealing with problems in environmental, water resources, civil, hydraulic and agricultural engineering, and in geomorphology and geology.

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Editorial Review

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From the Back Cover

Inspired by thirty years of research and teaching by the author, this book gives a concise exposure of the hydrodynamic concepts and calculation procedures, upon which fluvial hydraulics is built. The first part is devoted to steady uniform and non-uniform as well as unsteady flow in open channels. The second part deals with transport phenomena, including sediment transport and local scour, turbidity currents and mixing processes in open channels. The volume is divided into nine chapters of unequal length which are autonomous and self-contained. The subject matter presented in each chapter is usually followed by a number of solved exercises, accompanied by a detailed discussion of the solution procedure. Unsolved problems are given at the end of each chapter. The book is written in a user-friendly style and has a double vocation. It will readily serve as a textbook for undergraduate and/or graduate students as well as a handbook for the professionals dealing with problems in environmental, water resources, civil, hydraulic and agricultural engineering, and in geomorphology and geology.

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