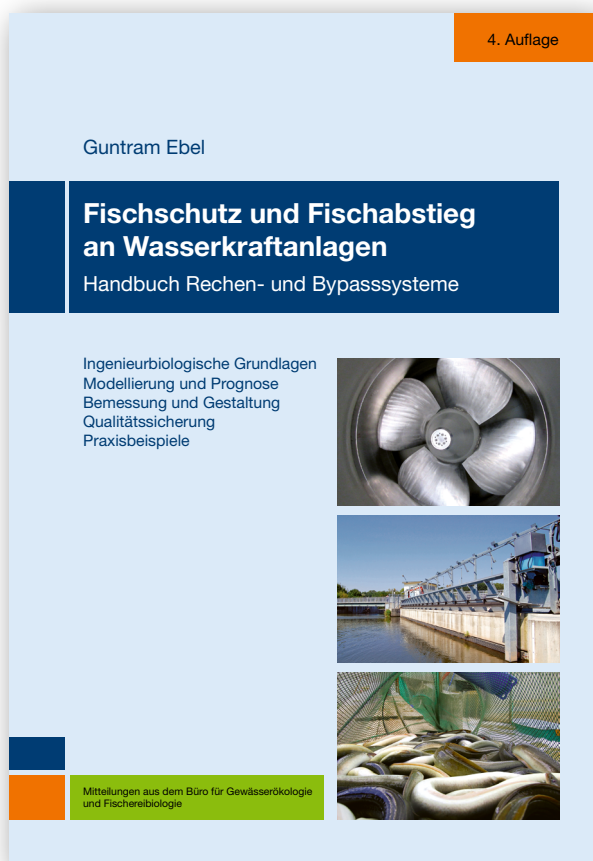


Fish Protection and Downstream Passage at Hydropower Plants Handbook of Bar Rack and Bypass Systems

4th Edition (fully revised and greatly expanded), ISBN: 978-3-00-074643-7

Author: Dr. Guntram Ebel, Publisher: Büro für Gewässerökologie und Fischereibiologie



Bioengineering Principles
Modelling and Prediction
Dimensioning and Design
Quality Assurance
Practical Examples

Bibliographical information

Size / format: 20 × 28 cm (hardcover), 671 pages
(all in colour), 84 drawings, 159 diagrams, 404 photos,
61 charts, 57 tables, 1,435 references

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Contents

The well-established standard work "Fish Protection and Downstream Passage at Hydropower Plants" is now available in a fully revised and greatly expanded edition, presenting the worldwide state of the art in a systematic, compact and application-oriented form, consistently combining scientific and practical aspects.

The book deals both with basic biological and technical-hydraulic principles of the interdisciplinary field as well as with practically important issues related to the arrangement, dimensioning and design of bar rack and bypass systems. The book also includes numerous predictive models that can be used to quantitatively describe essential bio-engineering correlations. In-practice operation of modern bar rack bypass systems is illustrated by looking at existing pilot plants.

The literature on which this new edition is based comprises 1,435 studies from Europe, North America, Asia, Australia and New Zealand and includes information on 104 species of fish and lamprey, 180 sites, and 166 water bodies. The clearly structured texts are illustrated and supplemented by 84 drawings and graphics, 159 diagrams, 404 photos, 61 charts and 57 tables. An index of 1,180 terms makes it easy to find information quickly, including the names of species.

This publication is not only intended to serve as a practical manual for planning bar rack and bypass systems but should also come in useful as a reference book that helps to answer specific questions in this field of expertise. The didactic concept of the book makes it also into a useful tool for teaching and study purposes.

In view of the internationally accelerated expansion of hydropower potential and the need to improve the environmental compatibility of older hydropower plants through efficient measures, the issues addressed in the book are of great current value.

Structure

Abstract in German, English, French (3 pages), Prefaces (4 pages), Acknowledgements (2 pages), Table of contents (10 pages), Introduction (6 pages), 12 chapters with 237 subchapters (527 pages), Literature (75 pages), Other lists (22 pages), Index of topics and species (13 pages)

Example pages

