



# Aquaculture Engineering

By Odd-Ivar Lekang

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## Aquaculture Engineering By Odd-Ivar Lekang

As aquaculture continues to grow at a rapid pace, understanding the engineering behind aquatic production facilities is of increasing importance for all those working in the industry. Aquaculture engineering requires knowledge of the many general aspects of engineering such as material technology, building design and construction, mechanical engineering, and environmental engineering. In this comprehensive book now in its second edition, author Odd-Ivar Lekang introduces these principles and demonstrates how such technical knowledge can be applied to aquaculture systems.

Review of the first edition:

*'Fish farmers and other personnel involved in the aquaculture industry, suppliers to the fish farming business and designers and manufacturers will find this book an invaluable resource. The book will be an important addition to the shelves of all libraries in universities and research institutions where aquaculture, agriculture and environmental sciences are studied and taught.'*

## Aquaculture Europe

*'A useful book that, hopefully, will inspire successors that focus more on warm water aquaculture and on large-scale mariculture such as tuna farming.'*

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### Editorial Review

#### From the Back Cover

Aquaculture has been expanding at a rate of 8% per year for more than 30 years, and is projected to continue growing at a very rapid rate into the foreseeable future. In this completely updated and revised new edition of *Aquaculture Engineering*, a highly successful, best-selling and well received book, Odd-Ivar Lekang provides the latest must-have information of commercial importance to the industry, covering the principles and applications of all major facets of aquaculture and engineering.

Every aspect of the growing field and its new developments has been addressed in this Second Edition, with coverage spanning water transportation and treatment; feed and feeding systems; fish transportation and grading; cleaning and waste handling; and instrumentation and monitoring. There have also been major changes incorporated into the book, in the following subject areas: removal of particles; aeration and oxygenation; recirculation and water reuse systems; ponds; and the design and construction of aquaculture facilities. Also included is coverage of land-based fish farms and cage farms, and the book concludes with a very practical chapter on systematic methodology for planning a full aquaculture facility.

Fish farmers, aquaculture scientists and managers, engineers, equipment manufacturers and suppliers will find the Second Edition of *Aquaculture Engineering* an invaluable resource. The book will be an important addition to the shelves of all libraries in universities and research establishments where aquaculture, biological sciences and engineering are studied and taught.

#### About the Author

**Odd-Ivar Lekang** is Associate Professor of Aquaculture Engineering at the Department of Mathematical Sciences and Technology at the Norwegian University of Life Sciences in As.

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