



New Technologies in Aquaculture: Improving Production Efficiency, Quality and Environmental Management (Woodhead Publishing Series in Food Science, Technology and Nutrition)

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With wild stocks declining due to over-fishing, aquaculture will have a more significant role to play in meeting future demand for fresh fish. Developments in research continue to lead to improvements in aquaculture production systems, resulting in increased production efficiency, higher product quality for consumers and a more sustainable industry. New technologies in aquaculture reviews essential advances in these areas.

Part one focuses on the genetic improvement of farmed species and control of reproduction, with chapters on genome-based technologies in aquaculture research, selective breeding and the production of single sex and sterile populations, among other topics. Parts two and three review key issues in health, diet and husbandry, such as the control of viral and parasitic diseases, diet and husbandry techniques to improve disease resistance, advances in diets for particular fish species and the impact of harmful algal bloom on shellfisheries aquaculture. Chapters in Parts three and four then examine the design of different aquaculture production systems, including offshore technologies, tank-based recirculating systems and ponds, and key environmental issues, such as the prediction and assessment of the impact of aquaculture. Concluding chapters focus on farming new species.

With its well-known editors and distinguished international team of contributors, New technologies in aquaculture is an essential purchase for professionals and researchers in the aquaculture industry.

- Reviews recent advances in improvements in aquaculture production
- Focuses on the genetic improvement and reproduction of farmed species, including genome-based technologies
- Discusses key health issues, including advances in disease diagnosis, vaccine development and other emerging methods to control pathogens in aquaculture

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