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Nota di contenuto	PART 1: FRAMEWORK CONDITIONS IN A RESOURCE LIMITED WORLD -- 1: Aquaponics and Global Food Challenges -- 2: Aquaponics: closing the cycle on limited water, land and nutrient resources -- 3: Recirculating Aquaculture Technology -- 4: Hydroponic Technology -- PART 2: SPECIFIC AQUAPONIC TECHNOLOGY -- 5: Aquaponics: The Basics -- 6: Bacterial Relationships in Aquaponics: New Research Directions -- 7: Coupled Aquaponic Systems -- 8: Decoupled Aquaponic Systems -- 9: Nutrient Cycling -- 10: Aerobic & Anaerobic Treatments for Aquaponic Sludge Reduction and Mineralisation -- 11: Systems Modelling -- 12: Aquaponics: Alternative Types and Approaches -- PART 3: PERSPECTIVE FOR SUSTAINABLE DEVELOPMENT -- 13: Fish Diets in Aquaponics -- 14: Plant Pathogens and Control Strategies in Aquaponics -- 15: Smarthoods: Aquaponics Integrated Microgrids -- 16: Aquaponics for the Anthropocene: Towards a 'sustainable first' Agenda -- PART 4: MANAGEMENT & MARKETING --

17: Insight into Risk in Aquatic Animal Health in Aquaponics -- 18: Commercial Aquaponics - A Long Road Ahead -- 19: Aquaponics: The Ugly Duckling in Organic Regulation -- 20: Regulatory Frameworks for Aquaponics within the EU -- 21: Aquaponics in the Built Environment -- PART 5: AQUAPONICS AND EDUCATION -- 22: Aquaponics as an Educational Tool -- 23: Opportunities and challenges in using aquaponics among young people at school – a Danish perspective -- 24: Aquaponics and Social Enterprise.

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Sommario/riassunto

This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

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