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Information; 6. Summary and Future Direction; Chapter 4: Nitrogen Fixation in the Marine Environment; 3. Pelagic Nitrogen Fixation; 4. What Limits Nitrogen Fixation; 5. Biogeochemical Significance of Marine Nitrogen Fixation; Chapter 5: Nitrification in Marine Systems; 2. Nitrifying Microorganisms; 3. Role of Nitrification in the Marine Nitrogen Cycle
4. Environmental Variables Affecting Nitrification Rates and Distributions
6. Future Directions; References; Chapter 6: Denitrification including Anammox; 2. Pathways and Controls of Nitrogen Oxide Reduction and Denitrification; 3. Sites of Marine Denitrification; 4. Isotopic Consequences of Denitrification; Acknowledgements; Chapter 7: Nitrogen Uptake and Assimilation; 2. Re-Evaluation of Nitrogen Limitation and New Production in the Sea; 4. Pathways of Nitrogen Uptake and Assimilation; 5. What Does the Future Hold?; Acknowledgements; Chapter 8: Nitrogen Regeneration
2. Types of Regenerated Nitrogen
5. Rates of Nitrogen Regeneration in the Water Column; Chapter 9: Land-Based Nitrogen Sources and Their Delivery to Coastal Systems; 2. Spatial Patterns in Amount and Form of River Nitrogen Export; 3. Sources of Nitrogen and Factors Controlling Nitrogen Export; 4. Temporal Patterns in River Export of Nitrogen; 5. Effects on Nitrogen Export of Long-Term Human Modification of Discharge; 6. Groundwater; 7. Atmospheric Deposition Directly to Coastal Waters; 8. Summary and Future Directions; Appendix; Acknowledgements; References
Chapter 10: Phototransformations of Dissolved Organic Nitrogen
1. Introduction; 2. Photochemical Production of Inorganic Nitrogen; 4. Recommendation for Future Research; Chapter 11: Nitrogen and Marine Eutrophication; 2. The Evidence for the Role of Nitrogen in Marine Eutrophication; 3. Nutrient, Physical and Climatic Controls of Marine Eutrophication; 4. Is Nitrogen Nitrogen? Roles of Different Nitrogen Sources in Marine Eutrophication; 5. The Role of Nitrogen in Relation to other Nutrients; 7. The Future and Nitrogen Management; Chapter 12: Nitrogen Uptake in the Southern Ocean
2. Environmental Factors Regulating Nitrogen Uptake

Sommario/riassunto

Since the first edition of Nitrogen in the Marine Environment was published in 1983, it has been recognized as the standard in the field. In the time since the book first appeared, there has been tremendous growth in the field with unprecedented discoveries over the past decade that have fundamentally changed the view of the marine nitrogen cycle. As a result, this Second Edition contains twice the amount of information that the first edition contained. This updated edition is now available online, offering searchability and instant, multi-user access to this important information.*

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