



# Shortcut Nitrogen Removal -- Nitrite Shunt and Deammonification

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## Shortcut Nitrogen Removal -- Nitrite Shunt and Deammonification By Water Environment Federation

Shortcut nitrogen removal, an emerging economical solution for water resource recovery facilities, refers to the biological nitrogen removal (BNR) process whereby ammonia is not converted to nitrate, but instead stops at nitrite to shortcut the conventional nitrification/denitrification process. The resulting breakthrough single-step deammonification has significant advantages compared to conventional BNR processes, including reduced energy requirements, reduced carbon requirements, and reduced chemical costs. Shortcut Nitrogen Removal—Nitrite Shunt and Deammonification is an essential resource for facility owners and practitioners evaluating the implementation of these advancements, including guidelines for assessing the application of various technologies. This book will ensure that you are able to: understand the current research, identify best practices, and recognize how implementing these emerging processes affects permit compliance, energy recovery, carbon usage, chemical addition, and solids production.

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### **Editorial Review**

#### Review

“An excellent guide for wastewater facility design engineers, regulatory managers, utility managers, professors, and researchers.” -Lawrence K. Wang and Mu-Hao S. Wang, Consultant/Professor, Lenox Institute of Technology

#### About the Author

The Water Environment Federation is a not-for-profit technical and educational organization of 33,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world. Since 1928, WEF and its members have protected public health and the environment. As a global water sector leader, our mission is to connect water professionals; enrich the expertise of water professionals; increase the awareness of the impact and value of water; and provide a platform for water sector innovation.

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