



Water Bioengineering Techniques: for Watercourse Bank and Shoreline Protection

By H. M. Schiechl, R. Stern

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Water and ground bioengineering techniques combine the expertise of civil engineers, landscape architects, botanists and ecologists, and increasingly are being used to protect and restore the natural environment.

This practical handbook shows how vegetation can be used for the protection, stabilisation and ecological enhancement of riverbanks and shores. It covers a range of techniques from wholly vegetative 'soft' techniques to 'semi-hard' or composite structures with vegetative inclusions. A chapter on bioengineering techniques in earth dam and floodbank construction is also included. Together with its companion book, *Ground Bioengineering Techniques*, this handbook on water bioengineering provides a rare opportunity to gain insight into the approach of its chief proponents--Professor H.M. Schiechl and his colleague, Dr R. Stern--in the use of vegetation for the engineering and ecological and visual enhancement of waterways and shorelines.

Water Bioengineering Techniques will be of interest to geotechnical engineers, botanists, ecologists and to those concerned with landscape planning, land and catchment management.

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Editorial Review

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From the Back Cover

This well established text provides a succinct introduction to the theory of civil engineering hydraulics, together with a large number of worked examples and exercise problems with answers, to help readers assess their understanding of the theory and methods of analysis and design.

The Fourth Edition features a new chapter on hydraulic structures and an expanded section on the gradient method for pipe networks design. Additional problems and worked examples have been added.

Civil Engineering Hydraulics will be invaluable throughout a student's entire course, and will also be welcomed by practising engineers as a concise reference.

About the Author

C. Nalluri is Reader in hydraulic engineering at the University of Newcastle upon Tyne and Visiting Professor at the University of Los Andes, Colombia, and at the University of Kiel, Germany. R. E. Featherstone was formerly Senior Lecturer in hydraulic engineering at the University of Newcastle upon Tyne. New material has been contributed by Professor Juan Saldarriaga, of the University of Los Andes, Colombia and Visiting Professor at Newcastle University.

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