

A.A. Balkema

Hydraulic

Research

Catalogue

1991

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A.A. Balkema / Rotterdam / Brookfield / 1991

Introduction

About the catalogue

The titles listed are arranged systematically as far as possible. Quotes from reviews are included for new and recent publications, however, for most 1990 titles no reviews had been received at the time of going to press. Some old and obsolete titles, of which only a few copies are available, have been included in order to make the catalogue complete. All books are hardcover, unless otherwise specified.

A note on the publisher

A.A. Balkema is an independent publishing house, owned by A.T. Balkema. The firm publishes about 75 new titles annually, mainly in the fields of geotechnics, mining engineering, civil engineering, hydraulics, geology, Quaternary research, palaeontology, agriculture, aquaculture, marine biology, botany (monographs on floras, plant families and genera), African studies, and history of Africa.

A special free service offered by A.A. Balkema is the publication of hardbound symposium proceedings. The complete production is done within eight weeks, which guarantees the availability of the proceedings before the actual congress starts. These proceedings are usually in the field of geomechanics or Quaternary research and are published for international societies such as IAHR, INQUA, ISSMFE, IAEG & ISRM and institutes such as: CUR, TAW and RBA.

The history of A.A. Balkema Publishers goes back to 1932, when A.A. Balkema started a bookshop in Amsterdam. During the German occupation A.A. Balkema was one of the most active underground publishers, mainly of texts of a literary nature in Dutch, French and English. Even in those days much attention was given to the typographical presentation of each title. Since 1973 the office is located in Rotterdam.

An invitation to prospective authors

A.A. Balkema is an internationally oriented publishing house specializing in the publication of academic books and journals. We are able to produce these books quickly and economically. Write to A.T. Balkema of A.A. Balkema Publishers, Vijverweg 8, P.O. Box 1675, NL-3000 BR Rotterdam, Netherlands, regarding publication arrangements for conference proceedings, research projects and individual manuscripts. You will receive a prompt reply.

Editorial enquiries and manuscripts should be directed to:

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Wood, I.R. (ed.)

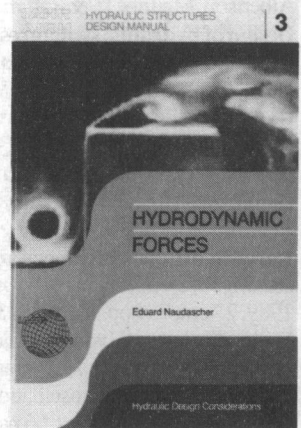
90 6191 994 0

Air entrainment in free-surface flow

(Hydraulic structures design manual, 4) (IAHR)

1991, 25 cm, 152 pp., Hfl.95 / \$50.00 / £30

For many hydraulic structures, safe operation can only be achieved if not only the characteristics of water flow are considered, but due attention is also given to the simultaneous movement of air in the system. Although usually well separated by a sharp interface, a number of flow configurations lead to an intensive mixing across the surface. This process is called air entrainment. Consideration of the effects of entrained air upon water flow may be essential to provide for the safe operation of a hydraulic structure. Introduction to air-water flows; Local surface aeration at hydraulic structures; Free surface entrainment on spillways; Aerators on spillways; Prototype aerator measurements. Editor: Univ. Canterbury, Christchurch.



Naudascher, Eduard

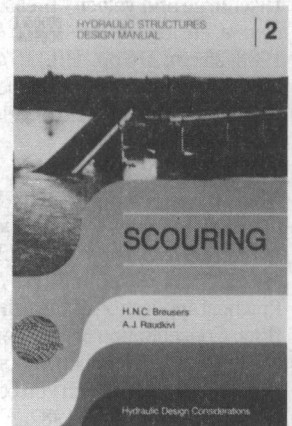
90 6191 993 2

Hydrodynamic forces

(Hydraulic structures design manual, 3) (IAHR)

1991, 25 cm, 296 pp., Hfl.125 / \$70.00 / £39

Only the forces induced by flow incident or past the structure are treated in this monograph. Fluctuating and mean hydrodynamic forces, (Introductory remarks, Fluctuating hydrodynamic forces, Mean hydrodynamic forces); Hydrodynamic forces on high-head gates (Introductory remarks, Prediction of flow, Prediction of downpull, Practical examples); Hydrodynamic forces on low-head gates (Introductory remarks, Gates with underflow, Gates with overflow, Gates with simultaneous overflow and underflow, Practical examples); References; Subject index. Author: Univ. Karlsruhe.



Breusers, H.N.C. & A.J. Raudkivi

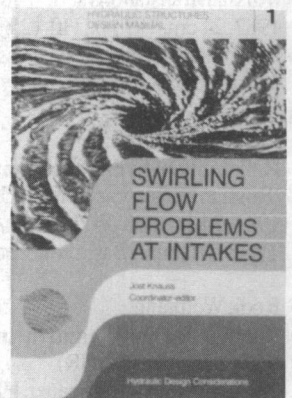
90 6191 983 5

Scouring

(Hydraulic structures design manual, 2) (IAHR)

1991, 25 cm, 152 pp., Hfl.95 / \$50.00 / £30

Most structures increase scouring, at least locally & often to the detriment of the river regimes. To predict this an understanding of scouring is necessary. Basic concepts of soil erosion & sediment transport; Scour in river & river constrictions; Scour around spur dikes & abutments; Scour at bridge piers; Scour by jets, at high-head structures & culvert outlets; Scour below low-head structures.



Knauss, J. (coordinator-editor)

90 6191 643 7

Swirling flow problems at intakes

(Hydraulic structures design manual, 1) (IAHR)

1987, 25 cm, 168 pp., Hfl.95 / \$50.00 / £30

Fundamentals of vortex intake flow; Results of theoretical & experimental work; Prediction of critical submergence; Modelling of vortices & swirling flows; Design recommendations; Intake structures; Pump sumps; Vortex-flow intakes.

• This volume forms an essential reference work for anyone involved in intakes, either as a practising design engineer or research worker. *Water Power & Dam Constr.*, July 1988.

Albertson, Maurice L. & Rahim A. Kia (eds.) 90 6191 898 7
Design of hydraulic structures 89—*Proceedings of the second international symposium, Fort Collins, 26–29 June 1989*
 1989, 23 cm, 504 pp., Hfl.135/\$75.00/£43

Hydrology, floods & risks; Computers, simulation & optimization; Modelling, testing & analysis; Foundations & materials; Storage & conveyance; Erosion & sediment control; Spillways & energy dissipation; Intakes & energy loss; etc. Editor: Colorado State Univ.

Large hydraulic machinery and associated equipment—*Proceedings of an international symposium, Beijing, 28–31 May 1989*
 1989, 27 cm, 759 pp., Hfl.195/\$108.00/£62 (No rights China)
 Hydraulic design; Hydraulic machinery; Structural design & manufacturing; Flow analysis; Hydraulic installations; Operation experiences; Vibration & oscillation; Testing; Transient phenomena & control; Bearing & valves. 66 papers.

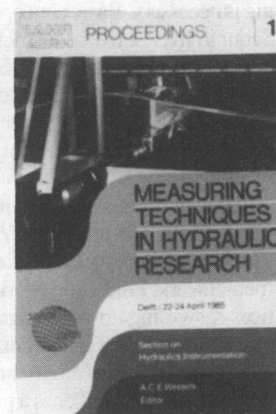
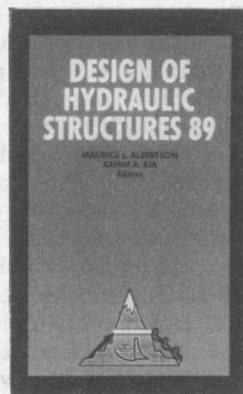
Müller, Andreas (ed.) 90 6191 782 4
Discharge and velocity measurements—*Proceedings of a short course, Zürich, 26–27 August 1987 (IAHR)*
 1988, 25 cm, 216 pp., Hfl.115/\$63.00/£36
 Discharge measurements & their calibration; Point measurements of velocities; Measurement of velocity fields. Editor: ETH., Zürich.

Wessels, A.C.E. (ed.) 90 6191 645 3
Measuring techniques in hydraulic research—*Proceedings of the international symposium on measuring techniques in hydraulic research, IAHR Section, Delft, 22–24 April 1985 (IAHR)*
 1986, 25 cm, 288 pp., Hfl.115/\$63.00/£36
 Practical application of measuring techniques. Fluid velocity & flow; Concentration & transport; Pressures; etc. 19 papers.
 • Für in wasserbaulichen Laboratorien Tätige und plan nende Ingenieure ist dieses Buch von besonderen Interesse. *Oesterreichische Wasserwirtschaft* (39) 1987.

Shul'man, S.G. (ed.) 90 6191 480 9
Seismic pressure of water on hydraulic structures
 (Russian translations series, 48) (No rights India)
 1987, 24 cm, 197 pp., Hfl.125/\$70.00/£39
 Determination of seismic pressure of water on the upstream faces of hydraulic structures, etc.

Mirtskhulava, Ts.E. 90 6191 491 4
Reliability of hydro-reclamation installations
 (Russian translations series, 55) (No rights India)
 1987, 24 cm, 308 pp., Hfl.125/\$70.00/£39
 Types of failure; Basic concepts; Economic aspects; Endurance; etc.

Rodi, Wolfgang 90 2127 002 1
Turbulence models and their application in hydraulics—*A state of the art review (IAHR)*
 1984, 24 cm, 116 pp., paper, Hfl.55/\$30.00/£17



Kerisel, Jean 90 6191 688 7
Down to earth – Foundations past and present: The invisible art of the builder

1991, 1987, 28 cm, 162 pp., 52 photos, Hfl.65 /\$38.50 /£20

A look at 'the invisible art' of the great builders; from ancient to present times. How they founded their constructions in the earth & strove to understand & combat the natural forces. The final part of the book looks into the future. Author: Former President of the Intl. Society for Soil Mechanics & Foundation Engineering.

Garbrecht, Günther (ed.) 90 6191 621 6
Hydraulics and hydraulic research: A historical review – International Association for Hydraulic Research 1935–1985 (IAHR)

1987, 28 cm, 377 pp., Hfl.165 /\$90.00 /£52

One of the very few books on the history of hydrology, hydraulics & water utilization. 32 authors from 16 different countries give a comprehensive portrait of hydraulics & hydraulic research. 33 contributions with 114 photos. Editor: Braunschweig Techn. Univ.

• Das Buch kann den kommenden, den tätigen und den bereits im Ruhestand befindlichen Wasserbauern wärmstens empfohlen werden. *Wasser und Boden* (12) 1987.

Kolkman, P.A., J. Lindenberg & K.W. Pilarczyk (eds.)
Modelling soil-water-structure interactions (SOWAS 88) – Proceedings of the international symposium, Delft, 29.08–02.09 1988

1988, 25 cm, 514 pp., Hfl.150 /\$85.00 /£47 90 6191 815 4

Soil-water-structure interactions; Wave & current induced behaviour of the seabottom; Local scour; Behaviour & stability of block revetments & filter layers; Wave impact loads & behaviour of asphalt revetments; Piles, platforms piers & gravity structures; Sand suppletion & flow slides, Breakwaters, dams & walls.

• Grosses Interesse an diesem Buch dürften vor allem jene haben, welche sich mit den einschlägigen Themen beruflich beschäftigen. *Oesterr. Wasserwirtschaft*, 41, 1989.

Kiya, F. & S. Murakawa 90 6191 903 7
Design load for water supply in buildings

1989, 25 cm, 299 pp., Hfl.95 /\$50.00 /£30 (No rights India)

When estimating the load for a water supply system, an analysis has to be carried out taking all possible variations into account and then a proper system can be designed as per these requirements. This book is the result of the studies on design load carried out by the authors. It discusses probability calculations which is the basis of all new design methods. Translated from Japanese.

Chakrabarti, S.P. 90 6191 474 4
Studies on the development of economical drainage systems for multi-storeyed buildings

1987, 24 cm, 114 pp., Hfl.75 /\$40.00 /£23 (No rights India)

Results of an analytical investigation carried out at the Central Bldg. Res. Inst., Roorkee, India & sponsored by the National Bureau of Standards, Washington. Formulates rational design procedures; etc.

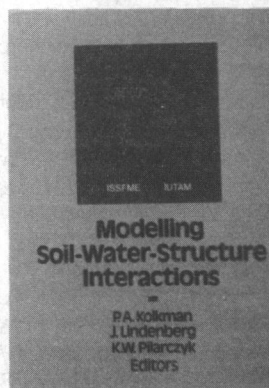
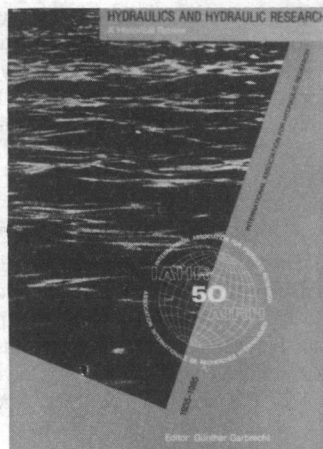
DOWN TO EARTH

Foundations Past and Present:
The Invisible Art of the Builder

JEAN KERISEL



HYDRAULICS AND HYDRAULIC RESEARCH



✓ Bouvard, M.

90 6191 150 2

✓ **Mobile barrages and intakes on sediment transporting rivers**

1991, 25 cm, c.400 pp., Hfl.185 / \$100.00 / £57

River water intake works implements all facilities to obtain water meeting quantity and quality requirements. Designing river water intake works has a heavy responsibility. Any shortcomings in the design of such projects will always have far-reaching consequences. The various links in the water intake chain are tightly interconnected, and their operation cannot be considered separately. Sediment phenomena and water intake design; Flow through hydraulic structures; Gate-structure dams: hydraulics, foundations, associated problems; Water intakes; Sediment traps; Gates and associated equipment; Project summaries.

✓ Goldin, A.L. & L.N. Rasskazov (R.B.Zeidler, transl.)

90 6191 173 7

✓ **Design of earth dams**

(*Proyektirovaniye gruntovykh plotin*, Moscow, 1987)

1991, 25 cm, 304 pp., Hfl.165 / \$90.00 / £52

Soil as material for dam body; Seepage in earth dams; Consolidation of soil in dam body & foundation; Stress-strain condition & strength of soil in dam body; Seismic stability of earth dams; Stability of slopes; Dam-foundation transitions; Design of earth dams; Optimum design by factor analysis; References.

Hasan, Baqir

90 6191 877 4

✓ **Damsite geology in Pakistan**

1991, 25 cm, c.480 pp., Hfl.225 / \$125.00 / £70

Extensive geological & geotechnical work has been done on scores of dam projects in Pakistan. Geological & foundation problems of sheared clays at Mangla & Kalabagh dams, sinkholes at Tarbela dam, buried glaciated channels at Basha & Kalam dam sites, & many other geological problems have been extensively investigated. Author: Pakistan Water & Power Authority, Lahore.

Motsonelidze, N.S.

90 6191 490 6

✓ **Stability and seismic resistance of buttress dams**

(Russian translations series, 58)

(No rights India)

1987, 24 cm, 293 pp., Hfl.125 / \$70.00 / £39

Matrix methods & analysis; Types of buttress dams; Stability of hollow, uniform-strength, anchored & through buttresses; References.

✓ Balasubramaniam, A.S., Yudhbir, A. Tomiolo & J.S. Younger (eds.)

✓ **Geotechnical problems and practice of dam engineering—Proceedings of the international symposium held at Asian Institute of Technology, Bangkok, 1–15 December 1980**

1982, 25 cm, 400 pp., Hfl.185 / \$100.00 / £57

1982, 25 cm, 400 pp., Hfl.185 / \$100.00 / £57

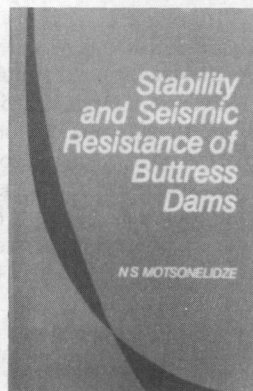
✓ Serafim, J. Laginha (ed.)

90 6191 521 X

✓ **Safety of dams—Proceedings of an international workshop, Coimbra, Portugal, 23–28 April 1984**

1984, 25 cm, 599 pp., Hfl.250 / \$135.00 / £79

Failures & incidents; Causes; Statistical studies; Safety criteria; etc.



Serafim, J. Laginha & R.W. Clough (eds.) 90 6191 842 1

Arch dams—Proceedings of the international workshop, Coimbra, Portugal, 5–9 April 1987

1990, 25 cm, 574 pp., Hfl.185 /\$100.00 /£57

A well edited book treating the basic subjects in arch dams design & behavior: Shapes of arch dams; Criteria for arch dam design; Historic aspects; Appropriate foundations; Design uncertainties; Observed behavior of arch dams. Discussion; Conclusions; Late precursors. Editors: Univ. Coimbra & Univ. California, Berkeley.

Deterioration of dams and reservoirs—Examples and their analysis / Détérioration de barrages et réservoirs—Recueil de cas et analyse

1984, 30 cm, 368 pp., Hfl.185 /\$100.00 /£57

Report prepared for the ICOLD by Prof. Manuel Rocha & A.Ferreira da Silveira from the Laboratoria de Engenharia Civil, Lisbon. Case studies from 33 countries: 14,700 dams, 1,000 cases of deterioration, 107 failures.

Pilarczyk, K.W. (ed.)

90 6191 127 3

Coastal protection—Proceedings of a short course, Delft, University of Technology, 30 June–1 July 1990

1990, 25 cm, 550 pp., Hfl.150 /\$85.00 /£47

Highlights the technical advances in coastal protection in the lowlands based primarily on the Dutch coastal engineering research and practice. Not restricted only to the lowlands, but also applicable to other coastal areas in the world. Topics: General strategy; Probabilistic design of flood defences; Dune & beach erosion & nourishment; Principles & effectiveness of groynes; Static & dynamic stability of loose materials; Design of seawalls & dikes including overview of revetments; Placed block revetments including geotechnical aspects; Asphalt mixtures for revetments of water-defences & embankments; Maintenance & monitoring including geotechnical aspects; Data collection & prediction methods; Hydraulic boundary conditions; Random seas for design of maritime structures; Dutch research strategy on water defences.

Nanjing Hydraulic Research Institute (ed.)

7 5027 0052 8

1987 Proceedings of coastal & port engineering in developing countries—Proceedings of the 2nd international conference, Beijing, 7–11 September 1987

1988, 26 cm, 2250 pp., 2 vols., Hfl.285 /\$158.00 /£90

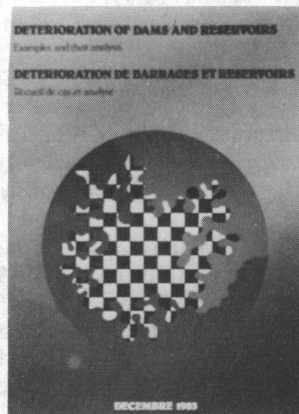
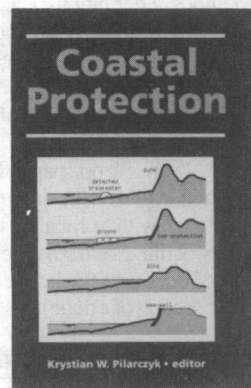
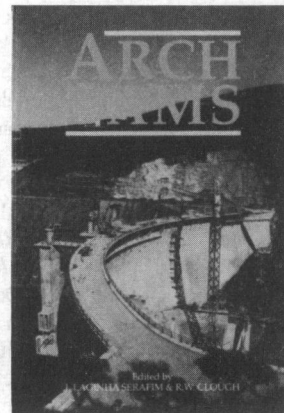
Coastal stability, beach erosion & control/inlets; Ports in developing countries, site-selection, lay-out, choice of structures & materials, construction, performance & maintenance; Small craft harbours/anchorage, & landingplaces/low cost harbour facilities; Sedimentation & dredging problems; etc.

Dalrymple, R.A. (ed.)

90 6191 516 3

Physical modelling in coastal engineering—Proceedings of an international conference, Newark, Delaware, August 1981

1984, 23 cm, 320 pp., Hfl.135 /\$75.00 /£43



Manual on the use of rock in coastal and shoreline engineering
(CUR)(CIRIA) 90 5410 102 4
1991, 25 cm, c.750 pp., Hfl.195 / \$108.00 / £62
Planning & designing; Materials; Physical site conditions and data collection; Physical processes and design tools; Structures; Maintenance; Appendices.

Guide for the design of river dykes in the Netherlands
Volume 1: Upper river area—Report 142 (CUR)(TAW)
1991, 25 cm, c.200 pp., Hfl.85 / \$48.00 / £27 90 5410 103 2
Starting-point for the design; Design; Execution aspects; Management & maintenance; Safety in strength and stability analysis; Loads on the flood defence; Soil mechanics & geohydrological investigation; Porewater pressures & piezometric head; Design calculations; Structural design aspects; Annexes.

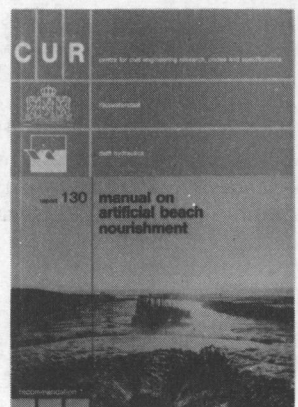
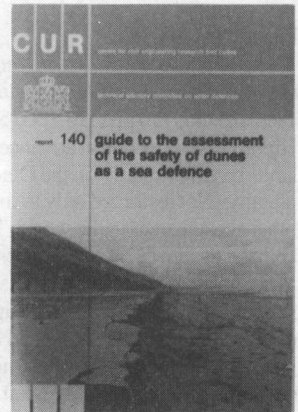
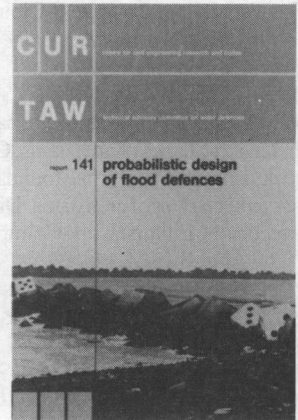
✓ **Probabilistic design of flood defences—Report 141** (CUR)(TAW)
1990, 25 cm, 154 pp., paper, Hfl.95 / \$50.00 / £30 90 376 0000 0
Methods & definitions; Calculation of failure probabilities; Calculation of the inundation characteristics; Calculation of damage in the event of a given inundation; Design criteria; Worked example; etc.

Guide to the assessment of the safety of dunes as a sea defence—
Report 140 (CUR)(TAW) 90 376 0005 0
1989, 25 cm, 30 pp., paper, Hfl.50 / \$28.00 / £17
Method, based on the dune erosion profile according to Vellinga combined with a probabilistic approach, is presented to evaluate the safety of dunes as a sea defence. Computational model for the expected dune erosion during a storm surge; Safety assessment of a cross section of a dune coast.

Manual on artificial beach nourishment—Report 130
(CUR)(TAW) 90 212 6078 6
1987, 25 cm, 195 pp., paper, Hfl.75 / \$40.00 / £23
Summary, conclusions & future developments; Literature survey of beach nourishment; Coastal processes; Design of a beach nourishment scheme; Quality assurance and reliability analysis; etc.

Appendix report 130: Background information on artificial beach nourishment 90 212 6078 6
1986, 31 cm, 448 pp., Hfl.150 / \$85.00 / £47
Review of literature; Artificial beach nourishment projects outside and in the Netherlands; Artificial beach nourishment in the Netherlands; Hindcast computations of some projects; Coastal morphology theories; Onshore-offshore transport; etc.

✓ **Guide to concrete dyke revetments—Report 119** (CUR)(TAW)
1984, 25 cm, 111 pp., paper, Hfl.90 / \$48.00 / £28 90 212 6062 X
Requirements for the revetment; Types of revetment; Material-technological properties of concrete in a maritime environment; Requirements applied to the base layers; Defined zones of loading; Shape of the cross-sectional profile of the dyke; Toe construction & transition to a different type of revetment; Construction; etc.



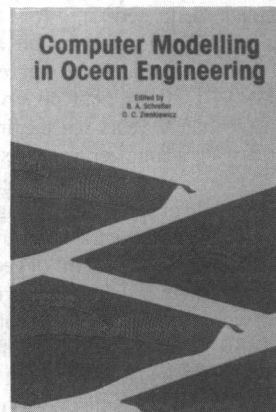
Schrefler, B.A. & O.C. Zienkiewicz (eds.) 90 6191 836 7

Computer modelling in ocean engineering—*Proceedings of the international conference, Venice, 19–21 September 1988*

1988, 25 cm, 744 pp., Hfl.165 /\$90.00 /£52

Work in modelling of wind-generated waves; Sea-level oscillations; Coastal erosion; Dispersion of contaminants from sewage outfalls; Water quality; Towed, powered, or drifting bodies; New vessel types; Fluid-structure interaction & accumulated fatigue; etc. Unesco sponsored. 91 papers.

• This excellent book deserves a place in the personal and institutional libraries of ocean engineers. *Appl.Mech.Rev.*, 42 (7), 1989. ... recommended to everyone working with computer modelling in ocean engineering. *Appl.Ocean Res.*, 13 (1), 1991



List of sea state parameters—*Paramètres des états de mer*

(IAHR)

1986, 30 cm, 50 pp., Hfl.25 /\$14.00 /£8 90 6191 690 9

Definitions of more than 100 different parameters, presently used to define a sea state. Compiled by the Working Group on Wave Generation & Analysis of IAHR. Based on the 1973 list of the Permanent International Association of Navigation Congresses, with help of the International Towing Tank Conference. In English and French.

Yudhbir & A.S. Balasubramaniam (eds.) 90 6191 515 5

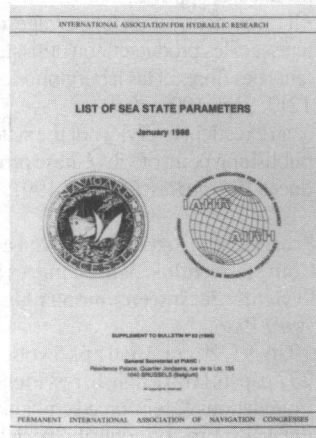
Geotechnical aspects of coastal and offshore structures—*Proceedings of the symposium, Bangkok, 14–18.12.1981*

1983, 25 cm, 288 pp., Hfl.145 /\$80.00 /£46

✓ **Deformation of soils and displacements of structures**—*Proceedings of the tenth European conference on soil mechanics and foundation engineering, Florence, 26–30 May 1991*

Deformation du sol et déplacements des structures—*Comptes-rendus du dixième congrès de mécanique des sols et des travaux de fondations, Florence, 26–30 Mai 1991* 90 5410 001 X

1991–92, 30 cm, c.1500 pp., 4 vols., Hfl.520 /\$290.00 /£165
Experimental determination of soil properties (stress-strain-time); Modelling stress-strain-time behaviour of natural soils; Shallow and deep foundations; Earth retaining structures and deep excavations; Special problems; etc. 208 papers, 10 General Reports.

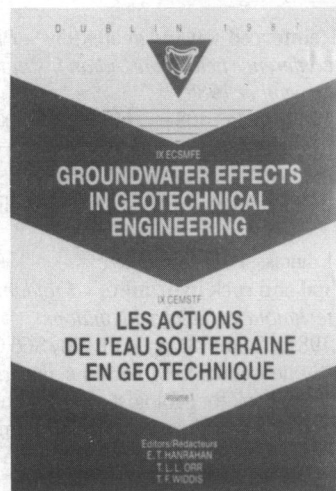


✓ Hanrahan, E.T., T.L.L. Orr & T.F. Widdis (eds.) 90 6191 720 4

Groundwater effects in geotechnical engineering—*Proceedings of the ninth European conference on soil mechanics and foundation engineering, Dublin, 31.08–03.09.1987*

Les actions de l'eau souterraine en géotechnique—*Comptes-rendus du neuvième congrès de mécanique des sols et des travaux de fondations, Dublin, 31.08–03.09.1987*

1987–88, 30 cm, 1511 pp., 3 vols., Hfl.520 /\$290.00 /£165
Field & laboratory testing; Special problem soils; Groundwater problems in embankments, dams & natural slopes; Groundwater in foundations & excavations; Environmental problems & seepage; Groundwater modelling; Groundwater control. 244 contributions.



Hoedt, G. den (ed.)

90 6191 119 2

✓ **Geotextiles, geomembranes and related products** – *Proceedings of the 4th international congress, The Hague, 28 May–1 June 1990* 1990–91, 30 cm, c.850 pp., 3 vols., Hfl.290/\$160.00/£92

More than 30 years ago, the first applications of woven synthetic fabrics in civil engineering works were realized. Especially in the last 20 years – more or less parallel with the development of nonwovens – the field of applications has grown from hydraulic works to include soil constructions and environmental engineering. Today yearly approx. 1,000 m² of geosynthetics are used worldwide. Topics: Strength & deformation in reinforced soil design (Steep slopes & walls; Embankments on soft soil; Unpaved roads & railroads); The soil particle, the water & the fibre; a fruitful interaction now controlled (Drainage & filtration; Erosion control; Canals, reservoirs, dams); Geosynthetics in waste containment (Waste disposal; Mechanical damage; Durability & creep; Miscellaneous tests; Special products & applications). Editor: AKZO Industrial Systems.

• Il est évident, qu'un tel ouvrage, d'un haut niveau scientifique, intéressera les producteurs ou utilisateurs de géotextiles, les producteurs des fibres et les laboratoires concernés. *L'Industrie Textile*, 1213, Sept. 1990.

... an excellent overview of the state of current technology. From a publishing point of view, these proceedings are extremely well produced. *Textile Res.J.*, March 1991.

✓ **Proceedings: 3rd international conference on geotextiles /**

Comptes-rendus: 3ème congrès international des géotextiles /

Berichte: 3er internationaler Geotextil-Kongress, Vienna, 7–11

April 1986

(No rights USA & Canada)

1986–91, 29 cm, 1646 pp., 5 vols., paper, Hfl.300/\$162/£95

237 papers (160 English, rest French/German): Road & railway; Foundations & reinforced embankments; Slope protection & retaining walls; Erosion control; Special applications; Drainage & filters; Properties & tests; Waterproofing & liners.

90 6191 650 X

✓ **Reinforced soil and geotextiles** – *Proceedings of the geotextiles*

conference held at the Indian Institute of Technology, Bombay, 8–9

December 1988

90 6191 938 X

1989, 25 cm, 408 pp., Hfl.95/\$50.00/£30

(No rights India)

57 papers on: Properties & laboratory evaluation; Ground restraint/stabilisation; Reinforced soil; Slope protection/erosion control; Drainage & filters; Special applications or problems; Geojute.

Franciss, Fernando Olavo

90 6191 550 3

✓ **Soil and rock hydraulics** – *Fundamentals, numerical methods and techniques of electrical analogs*

1985, 23 cm, 184 pp., Hfl.120/\$66.00/£38

(Student edn.: 90 6191 554 4, paper, Hfl.75/\$40.00/£23)

A textbook for geologists, mining engineers & civil engineers. Soil & rock hydraulics describes mathematically the physical phenomena related to water seepage through soil & rock masses. Author: University of Sao Paulo, Brazil.

4th International
Conference on
Geotextiles
Geomembranes and
Related Products

Volume 1



1990, May 28 – June 1, The Hague, Netherlands



REINFORCED SOIL
AND
GEOTEXTILES



PROCEEDINGS

Soil & Rock Hydraulics

Fundamentals, Numerical Methods & Techniques of Electrical Analogs

A. FRANCIS



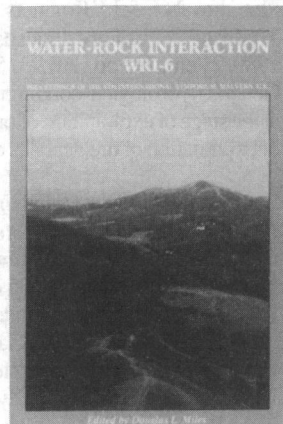
A.A.BALKEMA, ROTTERDAM, NETHERLANDS

Miles, Douglas L. (ed.) 90 6191 970 3

Water-rock interaction (WRI-6) – Proceedings of the 6th international symposium, Malvern, UK, 3–8 August 1989

1989, 25 cm, 838 pp., Hfl.150/\$85.00/£47

Interactions between water & rock affect many vital aspects of everyday life. The quality of the water we drink; The waste we produce & its disposal; What happens to acid rain; The search for new raw materials; The development of traditional sources of energy such as oil, coal, & gas; The search for alternative sources of energy such as geothermal power. 199 papers. Editor: British Geological Survey, Wallingford.



Beck, Barry F. (ed.) 90 6191 987 8

Engineering and environmental impacts of sinkholes and karst

Proceedings of the third multidisciplinary conference, St. Petersburg-Beach, Florida, 2–4.10 1989

1989, 28 cm, 392 pp., Hfl.150/\$85.00/£47

46 papers on: The geologic & hydrologic assessment of karst areas; Sinkhole development & occurrence; Ground water quality & pollution; Engineering geology of karst terranes; Geophysical investigations; Case studies of engineering in karst terrane; Planning, governmental & legal implications.

Beck, Barry F. & William L. Wilson (eds.) 90 6191 692 5

Karst hydrogeology: Engineering and environmental applications

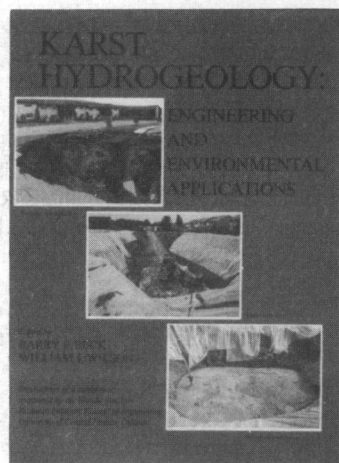
– Proceedings of the second multidisciplinary conference on sinkholes and the environmental impacts karst, Orlando, Florida, 9–11 February 1987

1987, 28 cm, 475 pp., Hfl.150/\$85.00/£47

Regional studies of sinkholes & karst; Case studies of sinkhole occurrence; Geophysical studies of sinkholes & karst; Hydraulics & groundwater pollution in karst terranes; Drainage & flooding in karst terrane; Planning for development of karst terranes; Remedial treatment of sinkhole collapse & other karstic engineering problems. 63 papers. Editors: Florida Sinkhole Res. Inst., Orlando.

• This book is absolutely essential for geologists and engineers working on projects in karst terrains. *Groundwater*, Dec. 1987.

For the engineering geologist working in carbonate areas this volume is essential reading... *Geology Today*, March–April 1988.



Serrano, José Manuel (ed.) 90 6191 821 9

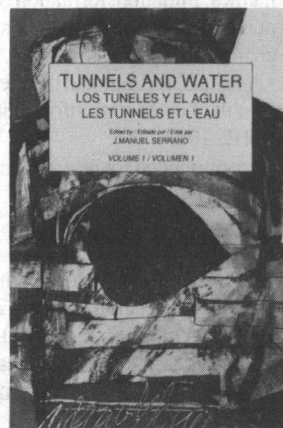
Tunnels and water / Los túneles y el agua / Les tunnels et l'eau

Proceedings of the international conference, Madrid, 12–15 June 1988

1988–89, 25 cm, 1521 pp., 3 vols., Hfl.275/\$155.00/£87

159 papers (100 English, 41 Spanish & 18 French) from 30 countries on: Water in design; Water in construction; Water in exploitation; Underwater tunnels; Hydraulic tunnels; Micro-tunnels.

• Die Bände sind eine Fundgrube für jeden Tunnelbauer. *Felsbau*, 7 (4), Nov.1989.



For more recent titles from related fields see page 20.

Plotnikov, N.I. & I.I. Roginets 90 6191 900 2
 Hydrogeology of ore deposits (Russian translation series, 72)
 1989, 21 cm, 298 pp., Hfl.95/\$50.00/£30 (No rights India)
 General hydrological conditions; Study of hydrological conditions
 at the stage of exploitation of ore deposits; Analysis of the influence
 of exploitation of ore deposits on changes in geological environment

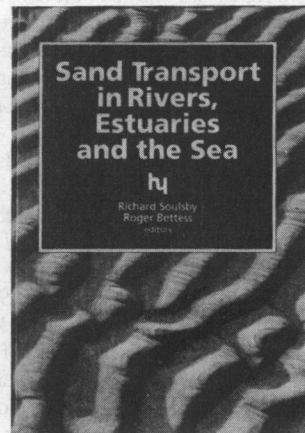
✓ Soulsby, R. & R. Bettess (eds.) 90 6191 186 9
 Sand transport in rivers, estuaries and the sea—*Proceedings of
 the Euromech 262 Colloquium, Wallingford, UK, 26–29 June 1990*
 1991, 25 cm, 294 pp., Hfl.135/\$75.00/£43
 Boundary layer processes under steady currents; Wave-only &
 wave-plus-current boundary layers; Physical processes of bedload
 transport & sediment suspension; Sediment transport by combined
 waves & currents; Bedform dynamics; Transport of sediment mix-
 tures; Prediction of total sediment transport rates. 38 papers from
 world experts.

Bechteler, W. (ed.) 90 6191 644 5
 ✓ Transport of suspended solids in open channels—*Proceedings of
 Euromech 192, Munich/Neubiberg, 11–15 June 1985*
 1986, 25 cm, 278 pp., Hfl.150/\$85.00/£47
 Flow structures as related to suspended sediment transport, particle-
 fluid dynamics; Concentration distribution & transport of suspended
 load under steady flow conditions; Reservoir sedimentation, settling
 basins; Resuspension, suspended & bed-load interaction; Sus-
 pended sediment transport under nonsteady flow conditions; Special
 topics. 40 papers.
 • Eine Fundgrube für jeden, der sich mit Probleme des Feststofftrans-
 portes in Oberflächengewässern befasst. *Zft.angew.Geol.*, 1988.

Sumer, B.Mutlu & A. Müller (eds.) 90 6191 221 0
 ✓ Mechanics of sediment transport—*Proceedings of Euromech
 156: Mechanics of sediment transport, Istanbul, 12–14 July 1982*
 1983, 25 cm, 296 pp., Hfl.150/\$85.00/£47
 Flow structure as related to sediment transport; Single-particle dy-
 namics; Initiation, formation & behaviour of ripples & dunes; Trans-
 port of sediment in suspension; Sediment transport in steep
 channels. 36 papers.
 • A valuable addition to the literature on the subject containing a
 wealth of up-to-date information on specific topics. *J.Rech.Hydraul.*
 Vol.22 1984.
 Recommended for research scientists in sediment transport. *Nordic
 Hydrology*, 1984.

✓ Rossinskii, K.I. (ed.) 90 6191 486 8
 Dynamics and thermal regimes of rivers
 (Russian translations series, 52) (No rights India)
 1987, 24 cm, 417 pp., Hfl.150/\$85.00/£47
 Thermal & ice regimes & streams; Hydrodynamics of rivers & re-
 servoirs; Dynamics of riparian zones; Riverbed processes.

**HYDROGEOLOGY
 OF
 ORE DEPOSITS**



**Dynamics and
 Thermal Regimes
 of Rivers**

Editor
 K. I. ROSSINSKII

Takahashi, T.

90 5410 104 0

Debris flow

1991, 156 pp., Hfl.95/\$50.00/£30

In Japan debris flow is an important object of research in science and engineering. Observation systems have been established in the basins with often occurring debris flow. The nature of debris flow observed in some mountain torrents; Mechanics of flow; Processes of occurrence, development and declination; Characteristics of fully developed flow; Processes of deposition; References; Appendix – Notations. Author: Disaster Prevention Res. Inst., Kyoto University.

✓ **Alluvial river problems – Proceedings of the third international workshop on alluvial river problems (TIWARP), University of**

Roorkee, India, 2–4 March 1989

90 6191 958 4

1989, 28 cm, 340 pp., Hfl.125/\$70.00/£39

(No rights India)

Scour & its protection; Morphological calculations; Resistance of alluvial streams; Sediment transport; Sediment yield & control; River improvement works; Coastal sedimentation & estuarine hydraulics; Sediment measurement; Appendices; Author index. 32 papers.

• Für den Interessierten auf dem Gebiet der Erosions- und Sedimentforschung bedeutet das Buch eine wichtige Ergänzung zur Basisliteratur. *Oesterr. Wasserwirtschaft*, 42 (1-2), 1990.

Ibad-zade, Yu.A.

90 6191 487 6

✓ **Movement of sediments in open channels**

(Russian translations series, 40)

(No rights India)

1987, 24 cm, 375 pp., Hfl.125/\$70.00/£39

Basic characteristics; Factors affecting movement; Theoretical basis of granulometric composition; Fall velocity; Statistical methods in distribution of fall velocity; Depth wise distribution of velocities & turbidities in turbulent flows; Resistances in open channels; Energy distribution pattern; Solving practical problems with the theory of energy transfer; Bed loads.

• The translation is excellent leading to a very readable text...

Jrl.Fluid Mech., 202, 1989.

Kobus, H.E. & W. Kinzelbach (eds.)

90 6191 879 0

✓ **Contaminant transport in groundwater – Proceedings of an international symposium, Stuttgart, 4–6 April 1989**

1989, 25 cm, 500 pp., Hfl.165/\$90.00/£52

Field methods & data processing; Field studies & tracer experiments; Contaminant chemistry & column experiments; Modelling of chemistry coupled to transport; Dispersion theory & transport in fractured media; Numerical aspects of modelling, parameter identification, & optimization; Multiphase flow & transport in unsaturated soil; etc. Editors: Inst. für Wasserbau, Univ. Stuttgart.

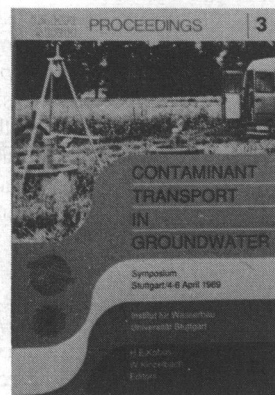
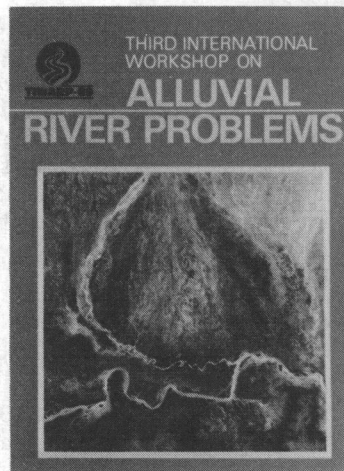
Yerruijt, A. & F.B. Barends (eds.)

90 6191 216 4

✓ **Flow and transport in porous media – Proceedings of Euromech 143, Delft, 2–4 September 1981**

1981, 25 cm, 240 pp., Hfl.165/\$90.00/£52

Editors: Delft University of Technology & Geomechanics Delft.



Weyer, Udo (ed.)

90 6191 175 3

Subsurface contamination by immiscible fluids – *Proceedings of a symposium, Calgary, Alberta, 18–20 April 1990*

1991, 25 cm, c.800 pp., Hfl.150/\$85.00/£47

Behavior of immiscible fluids (unsaturated & saturated zones); Sources of contamination (production, transportation, underground storage tanks, disposal); Investigative strategy & techniques (drilling, well & piezometer construction, vapour surveys, sampling & analysis, geophysical methods); Numerical & physical modelling (numerical & treatment of phase flow, tank experiments); Mitigation & remediation (phase removal, plume cleanup); etc.

Sargand, Shad M., Gayle F. Mitchell & John Owen Hurd (eds.)

Structural performance of flexible pipes – *Proceedings of the first national conference, Columbus, Ohio, 21–23 October 1990*

1990, 25 cm, 176 pp., Hfl.95/\$50.00/£30 90 6191 165 6

Pipe deflections: A redeemable asset; Rib-stiffened soil-steel structures; Field measurements & analysis of a large diameter flexible culvert; Application of deep corrugated, box-culvert with corrugated plate reinforcement; Spiral rib metal pipe structural performance limits; etc. Editors: Center Geotechn. & Groundw.Res., Athens & Ohio Dept. Transport.

Sharma, M.L. (ed.)

90 6191 873 1

Groundwater recharge – *Proceedings of a symposium, Perth, 6–9 July 1987*

1989, 25 cm, 336 pp., Hfl.150/\$85.00/£47

The 23 papers present an up-to-date account of the subject, and form a scientific background to practical problems, e.g. assessment of groundwater potential, evaluation & reclamation of dryland & irrigation salinity, prevention & reclamation of aquifer contamination through waste disposal & other sources of pollution. Keynote addresses. Editor: CSIRO, Wembley, Western Australia.

Gupta, C.P., Shakeel Ahmed, V.V.S.G. Rao & M.T. Rajan (eds.)

(No rights India)

90 6191 963 0

Appropriate methodologies for development and management of groundwater resources in developing countries – *Proceedings of the international workshop, Hyderabad, India, 28.02–04.03.1989*

1989, 25 cm, 1360 pp., 3 vols., Hfl.225/\$125.00/£70

Identification of the state-of-the-art techniques for geohydrological parameter estimation, acquisition of data, analysis of flow in unsaturated zone, studies of contaminant migration & augmentation of groundwater, etc. Editors: Natl. Geophysical Res. Inst., Hyderabad.

Handa, O.P.

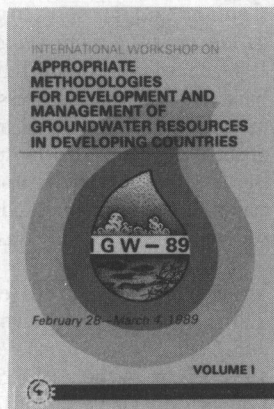
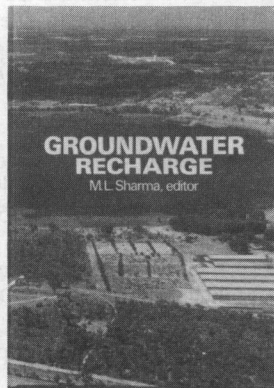
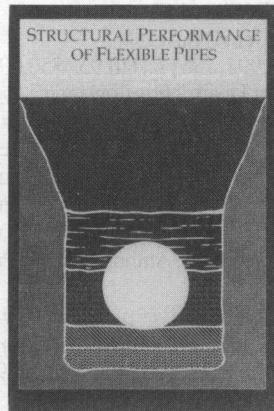
90 6191 969 X

Water well technology

(No rights India)

1989, 25 cm, 316 pp., Hfl.65/\$38.50/£20

Water well technology has been systematically examined from a number of angles. Drilling techniques; Coring drilling technology; Problem of gas in water wells; Water well casings & screens; Water lifting devices; Cavity well; Well failures; Cementing of wells; etc.



**Check Downe + Van Pelt or purchase*
 Tsakiris, G. (ed.) 90 6191 184 2

Advances in water resources technology – *Proceedings of the European conference advances in water resources technology, Athens, 20–23 March 1991*

1991, 25 cm, 686 pp., Hfl.135 / \$75.00 / £43

A wide spectrum of topics and the newest technological advances in the field of water resources. Surface water; Groundwater; Water resources conservation; Water quality and re-use; Computer modelling and simulation; Real time control of water resources systems; Institutions and methods for technology transfer. 70 selected papers.

**Check Downe + Van Pelt or purchase*
 Benedini, Marcello, Kodwo Andah & Ricardo Harboe (eds.)

Recent developments and perspectives of systems analysis in water resources management – *Proceedings of a seminar, Perugia, Italy, 1986 (IAHR)* 90 6191 148 6

1991, 25 cm, 233 pp., Hfl.165 / \$90.00 / £52

State of the art of various principles underlying the application of systems analysis to water resources management. Techniques involving linear and dynamic programming, uncertainties & risk analysis and multicriteria approaches with regard to decision making in water resources management and planning. Particular reference of some case studies to developing countries. 12 selected papers.

✓ Wunderlich, Walter O. & J. Egbert Prins (eds.) 90 6191 695 X

Water for the future: Water resources developments in perspective – *Proceedings of the international symposium on water for the future, Rome, 6–11 April 1987 (IAHR)*

1987, 25 cm, 717 pp., Hfl.165 / \$90.00 / £52

History; Urban & rural; Water law, policies & institutions; Managing existing water resource systems; Future challenges; Groundwater developments; Alternative water developments.

• Dieses Buch kann nicht nur Fachleuten der Wasserwirtschaft, sondern auch anderen Personen, die an der Geschichte und Gesetzgebung dieser Fachrichtung interessiert sind, empfohlen werden. *Oesterr. Wasserwirtschaft*, 39, 1987.

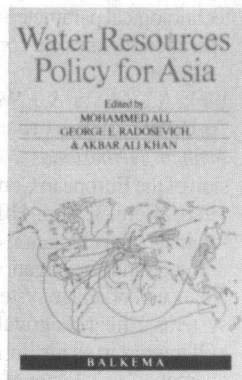
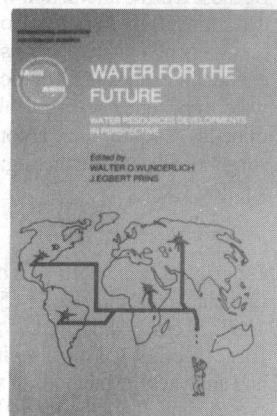
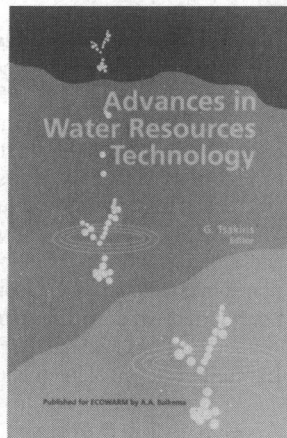
✓ Ali, Mohammed, G.E. Radosevich & A.A. Khan (eds.)

Water resources policy for Asia – *Proceedings of the regional symposium on water resources policy in agro-socio-economic development, Dhaka, Bangladesh, 4–8 August 1985*

1987, 23 cm, 640 pp., Hfl.185 / \$100 / £57 90 6191 684 4

Problem setting (regional considerations, country reports, concentrating on Bangladesh); Substantive alternatives in water policy & law (national & transnational legal systems); Planning & implementation processes (planning considerations, transnational planning efforts, national water resources).

• A welcome contribution to the water related economic development of Africa. *Hydrol.Sc.Jrl.*, 33 (5), Oct.1988.



For more titles on water resources see pages 14 & 15.

Caponera, Dante A.

90 5410 108 3

Introduction to general water law and administration

(RBA-series on water resources administration, 1)

1991, 25 cm, c.300 pp., Hfl.185/\$100.00/£57

Physical context relevant to water law; Relevant socio-economic context; Origin and earliest water regulations; Multiplicity of sources of water law; Existing systems of water law; Possible contents of and reasons for water law; Water resources administration; Water resources planning and water law; Current trends in water law and administration; International water law resources; Administration of international water resources; Groundwater pollution legislation; Current experiences and trends in the teaching of water law.

Author: Former Chief of UN/FAO Legislation Branch, Chairman Executive Council of International Association for Water Law.

Appelo, C.A.J. & D. Postma

90 5410 105 9

Groundwater geochemistry and pollution

1991, c. 250 pp., Hfl.140/\$79/£45

(Student edn.: 90 5410 106 9, paper, Hfl.85/\$48.00/£27)

Because it is the interaction with minerals in aquifers that ultimately determines the composition of groundwaters, this book emphasizes on water-mineral interactions as well as on the mineralogical and chemical compositions of rocks in aquifers. Introduction to groundwater geochemistry; From rainwater to groundwater; Solutions, minerals & equilibria; Carbonate reactions; Ion exchange and absorption; Silicate weathering; Redox processes; Transport in aquifers; etc.

Gnedin, K.V.

90 6191 489 2

Operating conditions and hydraulics of horizontal settling tanks

(Russian translations series, 53)

(No rights India)

1987, 24 cm, 244 pp., Hfl.95/\$50.00/£30

Basic theoretical laws of sedimentation in horizontal settling tanks and analyzes the methods of structural solution and design of this type of tank. It also explains the pattern of sludge accumulation and the magnitude of clear zones in them. New designs of horizontal settling tanks with dispersed surface collection of clear water and hydraulic bottom discharge of sludge are discussed. The hydraulic and technological parameters of horizontal settling tanks under various operation regimes are compared.

Wijk, A.L.M. van & J. Wesseling (eds.)

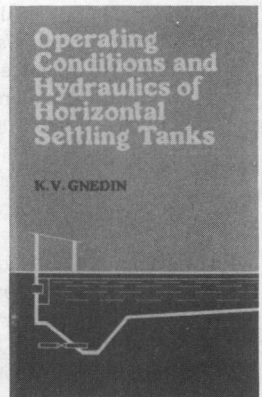
90 6191 639 9

Agricultural water management—Proceedings of a symposium, Arnhem, Netherlands, 18–21 June 1985 (Published for the Commission of the European Communities)

1986, 25 cm, 335 pp., Hfl.115/\$63.00/£36

Drainage & reclamation of soils with low permeability; Effects of drainage and/or irrigation on agriculture; Installation & maintenance of drainage systems; Regional & local water management systems; Effect of agriculture on its environment.

• Of interest to all institutions dealing with agricultural water management. *Agric. Water Manag.* (12) 1986.



✓ **Tunnelling for water resources and power projects** – *Proceedings of an international symposium, New Delhi, 19–23 January 1988* 90 6191 920 7

1988-91, 28 cm, 610 pp., 2 vols., Hfl.135 / \$75.00 / £43

Engineering classification of rock mass for tunnelling; Planning, investigation & analysis for tunnels; Geometric & hydraulic design of tunnels; Tunnelling, stabilization & support systems; Lining for power tunnels. Symposium was sponsored by Intern. Tunnelling Assn. (ITA), Bron, France. (No rights India)

✓ **Proceedings: International seminar on water resources management practices. Ilorin, Nigeria, 28.07–04.08.1984**

(Published by the Federal Department of Water Resources, Lagos for the International Association for Hydraulic Research & Unesco, & distributed by A.A. Balkema)

1987, 25 cm, 445 pp., Hfl.135 / \$75.00 / £43

Models for water demand analysis, resources allocation, quality management, & rural water supply management.

**Check Van Balkema, Jorane*

90 6191 674 7

Damen, M.C.J., G. Sicco Smit & H.Th. Verstappen (eds.)

✓ **Remote sensing for resources development and environmental management** – *Proceedings of the seventh international symposium, ISPRS Commission VII, Enschede, 25–29 August 1986*

1986–88, 30 cm, 1108 pp., 3 vols., Hfl.365 / \$200.00 / £120

Visible & infrared data; Microwave data; Spectral signatures of objects; Renewable/non-renewable resources in rural areas; Vegetation, forestry, agriculture, soil survey, land & water use, geology, geomorphology & engineering projects; Hydrology; Surface water, oceanography, coastal zone, ice & snow; Human settlements; Urban surveys, human settlement analysis & archaeology; Geo-information systems; Author index.

✓ Fraysse, Georges (ed.)

90 6191 081 1

✓ **Remote sensing application in agriculture and hydrology** – *Proceedings of a seminar held at the Joint Research Centre of the Commission of the European Communities, Luxembourg*

1980, 25 cm, 510pp., Hfl.195 / \$108.00 / £62

✓ Coughtry, P.J., D. Jackson & M.C. Thorne

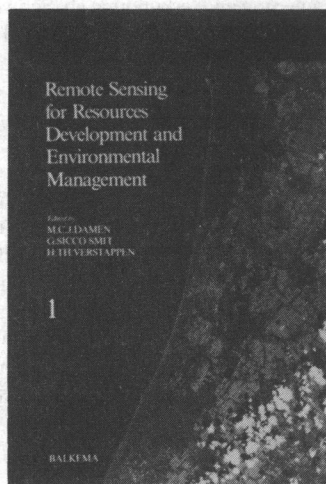
90 6191 277 6

✓ **Radionuclide distribution and transport in terrestrial and aquatic ecosystems** – *A critical review of data* (Prepared for the Commission of the European Communities)

1983-84, 25 cm, 2544 pp., 6 vols., Hfl.985 / \$540.00 / £325

Systematic & critical review of data from field & laboratory studies. Guide for their use in assessing the impact of routine releases of radioactive effluents. Treated are: Rb, Sr, Zr, Nb, Ru, Cs, Ce, Cr, Mn, Fe, Co, Ni, Zn, Mo, Ag, Cd, Na, S, Cl, Se, Br, Tc, Sn, Sb, Te, I, Pu, Np, Am, Cm, and the lanthanides. Authors: Associated Nuclear Services, Epsom, UK.

• The authors are to be congratulated on bringing together such a diversity of information. *Radiol. Protect. Bull.* (55) Nov. 1983.



Radionuclide Distribution and Transport in Terrestrial and Aquatic Ecosystems

P.J. COUGHTRY & M.C. THORNE
Associated Nuclear Services, Epsom, UK

VOLUME ONE



*Prepared for the Directorate General Employment, Social Affairs and Education
Health and Safety Directorate, Commission of the European Communities*
A.A. BALKEMA / ROTTERDAM

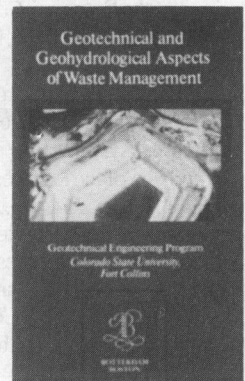
Jessberger, H.L. (Herausgeber) 90 6191 166 4
Neuzeitliche Deponietechnik– *Berichte vom 2. Deponie-Seminar, Bochum, 10.–11. Oktober 1990*
 1990, 23 cm, 269 Seiten, Hfl.85 / \$48.00 / £27
 Die Fortschreibung des LAGA-Merkblattes zur geordneten Ablagerung von Abfällen: Stand & Aspekte; Empfehlungen des Arbeitskreises 'Geotechnik der Deponien und Altlasten' (GDA); Geologisch-hydrologische Belange bei der Standortfindung von Deponien; usw.

Jessberger, H.L. (Herausgeber) 90 6191 199 0
Erkundung und Sanierung von Altlasten
Berichte vom 7. Bochumer Altlasten Seminar, 2. Leipziger Altlasten Seminar und 1. Regensburger Altlasten Seminar, 1991
 1991, 23 cm, 246 Seiten, Hfl.65 / \$38.50 / £20
 22 Beiträge decken ein breites Aufgabenspektrum der Altlastensanierung und -erkundung ab. Schwerpunkt der Beiträge bezieht sich auf administrative und juristische Fragestellungen, während die Mehrzahl der Beiträge sich mit der praktischen Anwendung unterschiedlicher Sanierungs-verfahren beschäftigt. Ausgeführte Sanierungs-projekten und Erfahrungen mit neueren Technologien.

Jessberger, H.L. (Herausgeber) 90 6191 105 2
Erkundung und Sanierung von Altlasten
Berichte vom 6. Altlasten Seminar, Bochum, 18 April 1990
 1990, 23 cm, 160 Seiten, Hfl.75 / \$40.00 / £23
 Die Mehrzahl der Beiträge beschäftigt sich mit der praktischen Anwendung unterschiedlicher Sanierungsverfahren wobei die Baustellenberichte einen anschaulichen Einblick in die Vielfalt der vor Ort zu lösenden Aufgaben geben. Editor: Ruhr-Universität, Bochum.
 • Dieser Vortragsband ist von Interesse für Naturwissenschaftler, Bauherren & Unternehmer. *Wasser, Energie, Luft*, 7/8, 1990.

Jessberger, H.L. (Herausgeber) 90 6191 874 X
Erkundung und Sanierung von Altlasten
Berichte vom 5. Altlasten Seminar, Bochum, 29. März 1989
 1989, 23 cm, 149 Seiten, Hfl.75 / \$40.00 / £23
 Die 12 Beiträge beziehen sich auf die medizinisch-toxikologische Bewertung von Altlasten, auf Schadstofftransport-Prozesse bei Einkapselungsverfahren und auf mikrobiologische Sanierungstechniken. Die Altlastensanierungspraxis in den USA, usw.

Geotechnical and geohydrological aspects of waste management– *Proceedings of the 8th annual symposium on geotechnical and geohydrological aspects of waste management, Fort Collins, 5–7 February 1986*
 1986, 23 cm, 570 pp., Hfl.165 / \$90.00 / £52
 Groundwater & surface hydrology; Geochemical transport; Geotechnical design; Reclamation & design aspects; Regulations & public concerns; Groundwater & other case histories.



Koudstaal, Rob

90 6191 748 4

Water quality management plan North Sea: Framework for analysis (Coastal waters series, 1) (Published for the International Federation of Institutes for Advanced Study (IFIAS) & Delft Hydraulics)

1987, 25 cm, 141 pp., Hfl.85 / \$45.00 / £27

Resources management; N. Sea management problem; Analysis for water quality management for Dutch portion of the North Sea; Methods of analysis; Results; Description of COWADAT.

Dekker, Lies, Blair T. Bower & Rob Koudstaal

90 6191 795 6

Management of toxic materials in an international setting: A case study of cadmium in the North Sea (Coastal waters series, 2) (Published for the International Federation of Institutes for Advanced Study (IFIAS) & Delft Hydraulics)

1987, 25 cm, 126 pp., Hfl.85 / \$45.00 / £27

Water quality management plan for Dutch portion of the North Sea; Estimating discharges under 1980 conditions; Estimating effects of discharges on ambient water quality; Analyzing institutional actions; Formulating management strategies.

Lang, G. & Ch. Schlüchter (eds.)

90 6191 849 9

Lake, mire and river environments during the last 15000 years—Proceedings of the INQUA/IGCP 158 meeting on the palaeohydrological changes during the last 15,000 years, Bern, June 1985

1988, 25 cm, 248 pp., Hfl.90 / \$48.00 / £28

Lake and mire environments; Fluvial environments; Fluvial environments and palaeohydrology: The state-of-the-art—Two views from Poland. 21 papers.

Postma, H. (ed.)

90 6191 052 8

Hydrography of the Wadden Sea: Movements and properties of water and particulate matter—Final report on 'Hydrography' of the Wadden Sea Working Group (Report 2)

1982, 24 cm, 76 pp., paper, Hfl.50 / \$28.00 / £16

Gordon, A.L., E.J. Molinelli & T.N. Baker

90 6191 630 5

Southern Ocean atlas (No rights India)

1986, 32 x 45 cm (obl.), 291 pp., Hfl.385 / \$200.00 / £120

Thermohaline & chemical distributions & the atlas data set; Objective contouring & the grid point data set. Authors: Lamont-Doherty Geological Observatory, Columbia University, NY & Planning Systems Inc., McLean, USA. 248 plates in 1 & 2 colors, 42 microfiches.

Sarukhanyan, É.I.

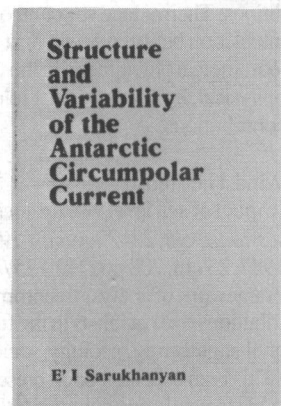
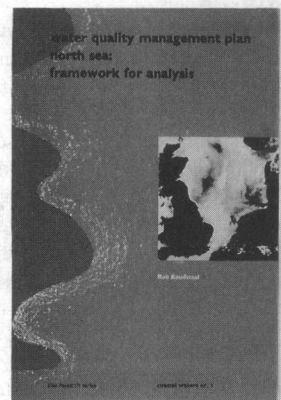
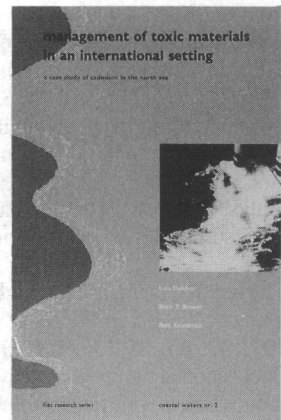
90 6191 467 1

Structure and variability of the Antarctic Circumpolar Current (M. Nataraja Pillai, transl.)

(Russian translations series, 44) (No rights India)

1986, 24cm, 110 pp., Hfl.70 / \$40.00 / £22.50

Horizontal circulation in Southern Ocean; Spatial structure of Antarctic Circumpolar Current (ACC) from experimental results; Transport of waters in ACC system; Variability of ACC.



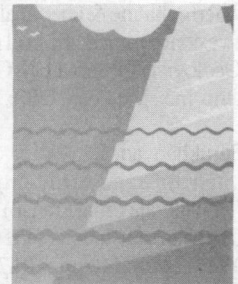
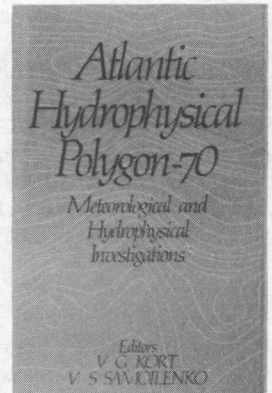
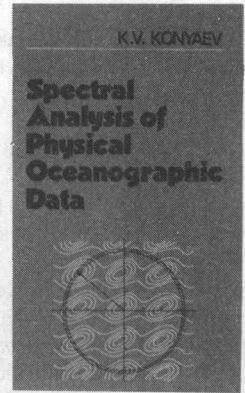
Konyaev, K.V. 90 6191 936 3
Spectral analysis of physical oceanographic data
 (Russian translations series, 80) (No rights India)
 1990, 24 cm, 217 pp., Hfl.95 / \$50.00 / £30
 Systematic description of multidimensional spectral analysis & its oceanographic applications; Traditional & special data-processing procedures; Errors of spectral estimates & principal limitations of analysis; Analysis of oceanographic fields (mesoscale eddies, internal & surface waves, acoustic noise fields, etc.).

The ocean characteristics and their changes – Special research project – Newsletter Nos. 1–17 (P.R. Kanade, transl.)
 1991, 425 pp., Hfl.135 / \$75.00 / £43 81 7087 062 3
 Publication of the research activities of various Japanese scientific groups from a wide range of fields. Highlights; Bulletins; Reports; Announcements; Bibliographies. Translated from Japanese.
 (No rights India)

Wyrtki, Klaus 90 6191 416 7
Oceanographic atlas of the International Indian Ocean Expedition (with assistance of E.B. Bennett & D.J. Rochford)
 1988, 32 x 45 cm (obl.), 542 pp., Hfl.485 / \$272.50 / £160
 Distribution of properties at the sea surface & horizontal surfaces; Data summaries for 300-mile squares; Vertical curves of properties in 600-mile squares; Distribution along sigma-surfaces; Core layers; Thermal structure; Dynamic topographies & mass transport maps; Vertical sections to the bottom & through the upper layer of the equatorial region; Volumetric inventory. Authors: Univ.Hawaii & Commonwealth Scient. & Industrial Res.Org., Cronulla, Australia.
 • ... undoubtedly the definitive work on the physical and chemical properties of the Indian Ocean. *Marit.Pol.MGMT.*, 16(4), 1989.

Kort, V.G. & V.S.Samoilenko (eds.) 90 6191 423 X
Atlantic hydrophysical Polygon-70 – Meteorological and hydrophysical investigations (Russian translations series, 11)
 1984, 24 cm, 404 pp., Hfl.155 / \$87.00 / £49 (No rights India)
 Space-time variability of oceanological fields under open ocean conditions; Thermolane structure of water masses; Dynamic & thermal interaction between ocean & atmosphere; Investigations on meteorological phenomena in the tropical zone; Studies on acoustic, geophysical, hydrochemical, biological, radioactivity matters. 23 contributions.

Wind, H.G. (ed.) 90 6191 786 7
Impact of sea level rise on society – Report of a project-planning session, Delft, 27–29 August 1986
 1987, 23 cm, 208 pp., Hfl.125 / \$70.00 / £39
 Framework of analysis recommendations & policy analysis; 11 contributions by specialists in the fields of climatology, marine ecology, civil engineering, geology, sociology, geography & economy.
 • This is an excellent book presenting a framework for analysis applicable to nearly any country. *Intl.Envir. Affairs*, 1 (1), 1989.



Impact of Sea Level Rise on Society
 Edited by Herman G. Wind

Kujansuu, R. & M. Saarnisto (eds.)

90 6191 857 X

Glacial indicator tracing

1990, 25 cm, 250 pp., Hfl.85/\$48.00/£27

Methods (Field & laboratory methods; Air photo interpretation; Geophysical methods; Geochemical methods; Automatic data handling); Glacial geology of indicator tracing (Genesis; Morphology; Boulder transport; Lithology; Indicator tracing in the mountain glacier environment; Trace metals in glacial material; Heavy minerals in glacial material). Editors: Geological Survey of Finland.

Ehlers, Jürgen, Philip L. Gibbard & Jim Rose (eds.) 90 6191 875 8

Glacial deposits in Great Britain and Ireland

1991, 28 cm, 589 pp., Hfl.185/\$100.00/£57

Because glacial deposits have a profound influence on groundwater protection, waste management and nature conservation, there is a growing desire for a detailed understanding of these sediments. They are also of vital importance for civil engineering. Although there have been many recent publications on various Quaternary geological topics, the present volume is the first dedicated to a detailed assessment of the glacial deposits of Britain and Ireland. Glacial events; Critical regions; Critical topics. 341 figures, 40 tables, 127 b/w photographs, 51 colour photographs.

Ehlers, Jürgen (ed.)

90 6191 223 7

Glacial deposits in North-West Europe

1983, 28 cm, 512 pp., Hfl.185/\$100.00/£57

A textbook for students and informed amateurs, and a guide for professional scientists. 53 chapters on Norway, Sweden, Denmark, Germany and the Netherlands. 504 photos (95 colour).

Avsyuk, G.A. (ed.)

90 6191 919 3

Data of glaciological studies – Chronicle discussions no.40

(Russian translations series, 67)

(No rights India)

1988, 25 cm, 500 pp., Hfl.145/\$80.00/£46

Compilation of the world atlas of snow & ice resources; Methods; Scientific information; Engineering glaciology; Glaciological terminology; etc.

Barkov, N.I. (ed.) (P.Datta, transl.)

90 6191 435 3

Ice shelves of Antarctica – Soviet Antarctic Expedition

(Russian translations series, 20)

(No rights India)

1985, 24 cm, 270 pp., Hfl.135/\$75.00/£43

History of investigations; Conditions of existence; Morphology; Charging; Structure; Thermal regime; Movement; Present state & past development; Classification; Bibliography.

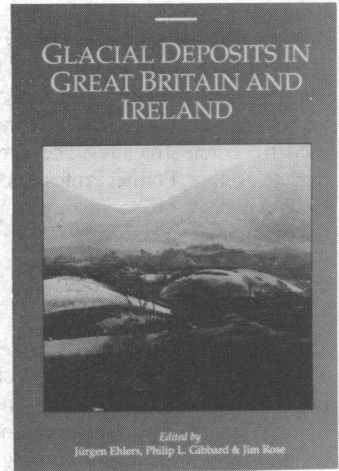
• It is good to have Barkov's book in English translation... *Polar Record* 23G45.

Hastenrath, Stefan

90 6191 038 2

The glaciation of the Ecuadorian Andes

1981, 23 cm, 174 pp., Hfl.95/\$50.00/£30



GLACIAL DEPOSITS
IN
NORTH-WEST EUROPE

Edited by
JÜRGEN EHLERS



A.A.BALKEMA/ROTTERDAM

DATA OF
GLACIOLOGICAL
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NO. 40

Chronicle
Discussions

Editor-in-Chief

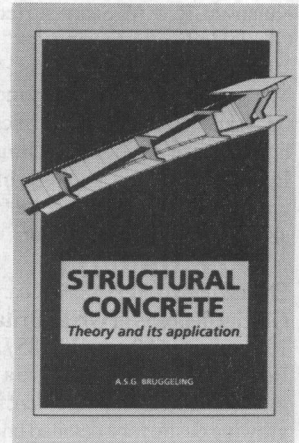
G A AVSYUK

Bruggeling, A.S.G. 90 6191 182 6

Structural concrete: Theory and its application

1991, 25 cm, 504 pp., Hfl.165 / \$90.00 / £52

The design procedures of structures in structural, reinforced, prestressed and partially prestressed concrete; Properties of materials used in concrete structures; The compression and the tension member; etc. Author: Former Professor of concrete construction at the Delft University of Technology, Honorary Doctor of the Universities of Stuttgart and Leuven.



Bruggeling, A.S.G. & G.F. Huyghe 90 6191 183 4

Prefabrication with concrete

1991, 25 cm, c.400 pp., Hfl.165 / \$90.00 / £52

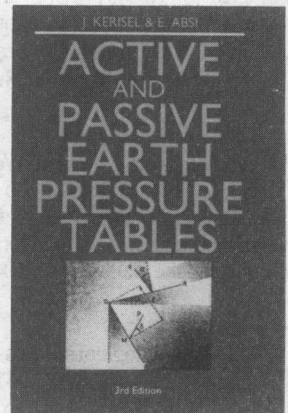
This book mainly deals with the design of structures in precast concrete, and the connection between precast elements (detailing, execution). It presents important aspects of the design process and their relationship with the manufacturing and construction.

Kerisel, J. & E. Absi 90 6191 886 3

Active and passive pressure tables

1991, 25 cm, 234 pp., Hfl.95 / \$50.00 / £30

These tables provide coefficients which are extreme values in which the soil still is in equilibrium. They present values which are often far apart, of two limit equilibriums of active and passive pressure.



Zareckiy, Yu.K. (R.B.Zeidler, transl.) 90 6191 174 5

Viscoplasticity of soils and analyses of structures

(*Vyazkoplastichnost' gruntov i raschoty sooruzheniy*, Stroyizdat, Moskva, 1988)

1991, 25 cm, 348 pp., Hfl.165 / \$90.00 / £52

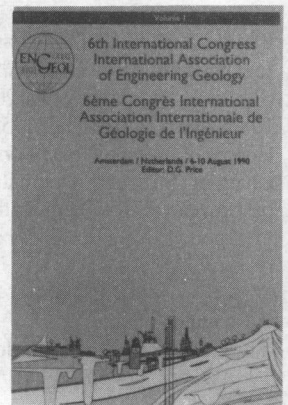
A new complex approach to assessment of the stress-strain condition of foundations and earth structures which permits limit-state computations. Cohesionless soils; Stress-strain design for earth dam; etc.

Price, D.G. (ed.) 90 6191 130 3

Proceedings: 6th international congress International Association of engineering Geology / Comptes-rendus 6ème congrès international, Association Internationale de Géologie de l'Ingénieur, Amsterdam, Netherlands, 6-10 August 1990

1990-91, 25 cm, c.5000 pp., 6 vols., Hfl.650 / \$360.00 / £205

Hydro-engineering geology; Engineering geology of land & marine hydraulic structures; Coastal protection & erosion; etc.



Blight, G.E. et al. (ed.) 90 5410 007 9

Geotechnics in the African environment - Proceedings of the tenth regional conference for Africa on soil mechanics & foundation engineering and the third international conference on tropical & residual soils, Maseru, 23-27 September 1991

1991-92, 25 cm, c.430 pp., 2 vols., Hfl.295 / \$160.00 / £93

The engineering geology of the Wolwedans Dam; Breaching of an earth dam in the Western Cape by piping; Countering potential piping at an earth dam on dispersive soils; etc.