

**GEOMECHANICS
AND
CIVIL ENGINEERING
1990 - 1993**

Concrete 1
Construction 3
Earthquake engineering 7
Soil mechanics 8
Geomechanics 14
Engineering geology 20
Rock mechanics 23
Mining engineering 28
Tunnelling 35
Dam engineering 36
Hydrogeology & Geochemistry 39
Index 44



**A.A. BALKEMA
Rotterdam, Netherlands
Brookfield, VT, USA**

Introduction

About the catalogue

The titles listed are arranged systematically as far as possible. All books are hardcover, unless otherwise specified.

All titles marked **NEW** are listed for the first time.

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 occurs 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.

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:

A. A. Balkema, Vijverweg 8, P.O. Box 1675, NL-3000 BR Rotterdam, Netherlands
Telephone: (+31.10) 4145822, Telefax: (+31.10) 4135947

Please give this catalogue to a friend or colleague when you no longer require it.
© 1993, A. A. Balkema, Rotterdam. No permission is required for reproducing or photocopying any part of this catalogue.

A. A. Balkema Publishers / Rotterdam / Brookfield / 1993

Structural concrete

STRUCTURAL CONCRETE

A.S.G. Bruggeling - C

This book presents a new theory of concrete structures presented contains many examples without having recourse of using terms like reinforcement limited, as well as particularly chosen, viz. 'structural members of structures in reinforced concrete; Properties of concrete; Design of structures; Prestressing of concrete; The practical applications of different structures

90 6191 182 6 Apr

Concrete

PREFABRICATED CONCRETE

A.S.G. Bruggeling & C

This book mainly deals with the connection between prefabricated concrete and the connection between prefabricated concrete and the manufacturing of the important aspects of the manufacturing of prefabricated concrete, calculation of the important aspects of the manufacturing of prefabricated concrete, and tie models; Engineering of prefabricated concrete frames or structures in prefabricated concrete used to connect beams and columns; Structures with their supports; Such a way that it can be used in detailers of prefabricated concrete; Methods are discussed with recommendations.

90 6191 183 4 July

Concrete

NEW

INNOVATIVE WORK

international symposium

Keynote lectures: The first 20 years experience in European concrete structures; Innovations related to the modelling of concrete in orthotropic concrete bridges; Methods of rehabilitation of concrete structures; Bondless prestressing in concrete structures; Highway bridge construction

90 5410 246 2 July 19

A. A. Balkema, P.O. Box 1675, NL-3000 BR R

Civil engineering

STRAIT CROSSINGS – *Proceedings of the second symposium, Trondheim, 10 – 13 June 1990*

Jon Krokeborg (ed.) – Norwegian Public Roads Admin., Oslo
Permanent links across fjords and straits play an increasingly important role in communications around the world. Authors from 14 nations describe social, economic & environmental effects, technology, safety & traffic operation problems from projects including bridges, floating bridges, submerged & immersed tubes, and rock tunnels. This book is an important addition to what was written earlier on this topic, and is a useful reference book for technicians as well as planners & economists.
90 6191 118 4 June 1990 660 pp. Hfl.240 / \$135.00 / £89

Highway engineering

HIGHWAY CAPACITY AND LEVEL OF SERVICE
Proceedings of the international symposium, Karlsruhe, 24 – 27 July 1991

Ulrich Brannolte (ed.) – Karlsruhe University, Germany
45 papers by researchers in the field of transportation engineering from 4 continents. The papers deal with main subjects as diverse as freeway capacity & flow, capacity of signalized & unsignalized intersections, urban road systems, urban arterial & rural highway capacity, urban intersections, bicycles, & pedestrians. In all countries capacity & level of service are specified by standards & guidelines with the successive publications of the US Highway Capacity Manual holding a key position.
90 5410 011 7 July 1991 500 pp. Hfl.205 / \$120.00 / £76

Ocean engineering

COMPUTER MODELLING IN OCEAN ENGINEERING 91
Proceedings of the second international conference, Barcelona, 30 September – 4 October 1991

A.S.Arcilla et al. (eds.) – University of Catalonia, Barcelona
The use of numerical simulation tools in the field of ocean engineering has grown significantly during the last decades. The development and application of computer models in this field is becoming more widespread due to significant advances in hardware and software technology. This book is the result of such a growing utilization, and comes from the edited proceedings of the 2nd. international conference 1991. These proceedings with a wide spectrum of methods & techniques, theoretical & applied will contribute to the scientific advance of ocean engineering.
90 5410 024 9 September 1991 580 pp. Hfl.190 / \$110.00 / £70

Dam engineering

ARCH DAMS – *Proceedings of the international workshop, Coimbra, 5 – 9 April 1987*

J.Laginha Serafim & R.W.Clough (eds.)
A well-edited book treating the basic subjects in arch dams design & behavior: Shapes of arch dams; Criteria for design; Historic aspects; Appropriate foundations; Design uncertainties; Observed behavior.
90 6191 842 1 July 1990 480 pp. Hfl.230 / \$130.00 / £85

Dam engineering

GEOTECHNICAL DAMS

NEW

Robin Fell, David S
The aim of this book is highlighting common Embankment dams, th profiles in valleys; Ge geological environme geotechnical investiga testing techniques and construction of filters; and piping failure; Da analysis; Foundation p Embankment details; rockfill; Design of da dams; Mine and indus embankment dams; R
90 5410 128 8 Jul

Dam engineering

RESEARCH NEEDS
first conference, New

NEW

Safety of dams is dep analysed constantly ar continued accrual of t possible. Natural caus ration of foundations/ actual failure of dams failure to work out sui investigations, design knowledge is gained a earlier times one cons Foundation problems, geological characteriz Concrete & masonry c considerations; Instru
90 6191 414 0 Jun

Dam engineering

MOBILE BARRAGE TRANSPORTING

M.Bouvard – Institu
River water intake wo meeting quantity and d works has a heavy res chain are tightly interu separately. *Topics:* Se through hydraulic stru Sediment traps; Gates
90 6191 150 2 Ap