

Book reviews

Structural concrete

Troels Brøndum-Nielsen

Published by Polyteknisk Forlag, Lyngby, Denmark. 1973. A5. pp. x, 136. Price D.kr.57.50. Available from the Cement and Concrete Association as publication 15.221. Price £4.00.

First it is necessary to warn the reader that the title suggests that the book is much more general than is actually the case. In fact, the text consists of notes for a series of lectures given by the author to the International Course on Structural Concrete which took place at the Laboratório Nacional de Engenharia Civil in Lisbon in 1973. This course was organized under the patronage of the Comité Européen du Béton (the CEB). It is fair to say that more than 90% of the book is concerned with the analysis of prestressed beams and sections subjected to flexure. Generally, the methods described are those given in the 1970 CEB-FIP *Recommendations* and, as an exposition of the relevant parts of these *Recommendations*, the book is of value, though the treatment seems somewhat uncritical.

The text is well endowed with explanatory Figures and worked examples. To be commended particularly is the clear definition at the start of the book of the notation and the terms used within the text. A very thorough Bibliography, indexed in order of date of publication, by subject and by author's name, is included.

A.W.B.

Dimensionering av armerade betongplattor enligt strimle metoden

Design of reinforced concrete slabs according to the strip method

Arne Hillerborg

Published by Almqvist & Wiksell Forlag AB, Lund, Sweden. 1974. 218 × 144 mm. ISBN 91-20-03918-2. pp. 327. Price not stated.

Basic principles of the equilibrium theory, of which the strip method is a special case, are given in the first chapter, and the requirements for satisfactory solutions are stated. Comparisons are made with the straightforward application of the theory of elasticity and the yield-line theory. The simple strip method is expounded in the second chapter, the third deals with radial and tangential moments in circular slabs with symmetrical load and support conditions and the fourth with solutions including torsional moments. Point loads and point supports are then discussed and a special simplified design procedure given for point-supported slabs. Alternative distributions of reinforcement are discussed. A further comparison with yield-line theory is made and finally comparisons are made with test results. Professor Hillerborg admits that few are available and would welcome more.

The book, which is case-bound but typewritten, is well illustrated with diagrams. The text is in Swedish but purchasers of the book can (until the end of 1976) obtain a substantial English summary of the book from the author.

A.E.B.