

# *Publisher's announcement*

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## **Yield-line theory**

by K. W. Johansen

Translated from the Danish. First English edition, published by the Cement and Concrete Association, 1962. pp.viii, 181. 118 Figures. Price 63s.

Since 1945 the civil and structural engineer has become more and more concerned with a rationalization of the design approach to structural problems. This rationalization can come about by a change from the so-called elastic design procedures to the ultimate load or limit design procedures. A considerable amount of attention has been paid to this process by specialized committees drawing up national codes of practice and also by the European Committee for Concrete which is attempting to formulate an international code of practice.

The emphasis in the codes which have been produced has been veering towards limit design and, in the particular case of slabs for building structures, the use of the yield-line theory for both prestressed and reinforced concrete slabs has been adopted. This particular theory can lead to a considerable simplification in design calculations but, like all simplifications, for it to be valid, a considerable amount of theoretical background is necessary.

The majority of this theoretical work has been performed by Professor Johansen, despite the fact that in his lecture on yield-line theory, given in London on

22 August 1961, he was at pains to emphasize the work done on the subject by earlier research workers. This modest approach, however, could not alter the fact that Professor Johansen's thesis, *Brudlinieteorier*, presented to the Danmarks Teknisk Højskole in 1943 for his doctorate, has been the source-book on yield-line theory for all workers in this field ever since.

Unfortunately, until now, *Brudlinieteorier* has been only available in the original Danish, which has made study of the basic text on this complex subject even more difficult than it might be for the majority of readers. Now at last a complete edition in English is to be published. The translation, which was prepared by the Building Research Station, has been carefully checked at each stage by the author and is being published by the Cement and Concrete Association this summer. The new edition will include all the original illustrations, and will be issued fully bound.

Orders can now be taken for *Yield-line theory*. Remittances for 63s. per copy (post free) should be made payable to the "Cement and Concrete Association" and sent to them at 52 Grosvenor Gardens, London, S.W.1.