

Discrete elements in structural concrete design

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In the sixties Prof. J. Witteveen introduced a discrete model for the elastic analysis of slabs (Heron 1966). This article presents a similar approach for the design of reinforced concrete walls and deep beams, with holes or otherwise. The model – which is called stringer-panel model – combines the advantages of the popular strut-and-tie method and the standard finite element method. It has the same geometry as the plastic model proposed by Prof. M.P. Nielsen in the seventies (Kærn 1979). However, the stringer-panel model accurately uses the non-linear behaviour of reinforced concrete. So, it encompasses both the elastic and plastic states. The method provides crack width information in the serviceability limit state and allows for redistribution of forces in the ultimate limit state. A design example shows the usability of the model in engineering practice.

Key words: Wall, structural concrete, stringer-panel, strut-and-tie, computer aided design

1 Introduction

To date two approaches are commonly used to design structural concrete: The strut-and-tie method and the linear finite element method. The strut-and-tie method is simple, economical and safe. However, since it is essentially a plasticity approach it gives no information on crack widths in serviceability conditions. As a consequence it is difficult to convince the responsible building authorities of the durability of a design. The finite element method on the other hand is very suitable for designing for serviceability conditions but leads to an uneconomical reinforcement layout since redistributions of the flow of forces at ultimate limit states or before are not taken into account.

For an accurate description of cracks and redistribution of forces a non-linear model is necessary. Non-linear finite element analysis is still very time consuming and it requires an expert to operate a finite element package. This is obviously why non-linear analysis is not common in a normal consultancy company. In order to introduce non-linear techniques in practise we need a simplified model that can be evaluated in about one minute on a modern desktop computer. This is the subject of this paper.

Discrete Elements And Nonlinearity In Design Of Structural Concrete Walls

Albert A Gayle



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