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Composite Steel-Concrete Construction and Eurocode 4 Notes of the IABSE Short Course, Brussels, September 1990

The last twenty years have seen major advances in our understanding of how composite steel concrete construction behaves, and this system of construction is now well established and recognized as an economical structural method.

In response to the intensive research activity, design codes were elaborated and some of them have been subjected to continual changes. Among the several codes that the Commission of the European Communities intends to issue, Eurocode 4 «Design of Composite Structures» will provide the most updated information for the design and fabrication of composite steel concrete construction.

The Short Course was organized in September 1990, prior to the IABSE Symposium in Brussels on «Mixed Structures, including New Materials». Its objective was to teach the practitioner, basics and recent important developments achieved in the field of behaviour and design of composite elements and structures. The course was also intended as an introduction to the guidelines and design rules applied in the preparation of the drafts of Eurocode 4.

Based on the interest shown for the Short Course, i.e. the extra number of applications, IABSE decided to make the Notes available to a much wider public than the 64 participants.

The Notes of the Short Course will be particularly helpful to those having a basic background but interested – through individual study – in increasing their knowledge in the design of composite steel concrete elements and structures. The Notes illustrate the development in composite construction, whilst numerical examples will benefit the designer. However these Notes are not an Introductory Course on Eurocode 4, their educational value remaining valid even after the publication of Eurocode 4, as a Euronorm, after 1992.

The Experts, who lectured at the Course, are personally involved in the technical discussions leading to the elaboration of Eurocode 4 «Composite Structures». Contributions to these Notes include:

«Introduction»

J. Janss, CRIF, Liège

«General Methods of Design of Composite Construction»

Prof. J.W.B. Stark, IBBC-TNO, Delft

«Composite Columns»

Dr. R. Bergman, Ruhr University, Bochum

«Composite Slabs»

M. Crisinel, Swiss Fed. Institute of Technology, Lausanne

«Composite Beams»

Prof. H. Bode, University of Kaiserslautern, Kaiserslautern

«Composite Girders»

Prof. R. Kindmann, Ruhr University, Bochum

«Composite Bridges»

Dr. J.-P. Lebet, Swiss Fed. Institute of Technology, Lausanne

«Case Studies in Belgian Composite Bridges»

J.M. Cremer, Bureau d'études Greisch, Liège

The Notes will also be a welcome addition to existing lecture notes at Universities and Institutes, worldwide.

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