

Zeitschrift: IABSE congress report = Rapport du congrès AIPC = IVBH
Kongressbericht

Band: 12 (1984)

Artikel: Conclusions to main theme A: the structural design process

Autor: Schalcher, Hansruedi

DOI: <https://doi.org/10.5169/seals-12106>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 10.08.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

Conclusions to Main Theme A The Structural Design Process

Hansruedi SCHALCHER

Dr. Eng.
Schalcher & Partner
Zurich, Switzerland

After the opening of the first session of the congress by The President of IABSE, the general reporter gave a short introduction into main theme A "The structural design process". He explained the various aspects of engineering design and pointed out some future trends. The first main speaker illustrated the specific problems of planning and construction of offshore structures with emphasis on areas with low temperatures. The second contribution gave an overall view of the actual techniques and the future development in bridge design, in particular with regard to cable-stayed bridges.

After coffee break four speakers elaborated their view about four different aspects of design: Problem identification and planning, choice of structural concepts, structural design process with seismic considerations and major construction and other failures.

Session A was too short to deal with all main problems related to design. But the variety of experiences and examples that were presented showed in an impressive manner that the engineer's work should not only concentrate on structural analysis, loads and forces or materials. The engineer should approach design on a broader basis. He should be aware of the general functions of a structure and its interdependance with the environment. A further, important outcome of this session was the statement, that design is not a well known and already established science, but it is a skill which needs permanent training and future development.

Leere Seite
Blank page
Page vide