

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

**Band:** 11 (1980)

**Artikel:** Introduction to the theme

**Autor:** Fanelli, M.

**DOI:** <https://doi.org/10.5169/seals-11204>

### 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:** 15.08.2025

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



## VII

### **Introduction to the Theme**

Introduction au thème

Einführung zum Thema

**M. FANELLI**  
Prof. Dr.  
ENEL  
Milan, Italy

Two half day sessions have been scheduled for the theme "Computer Design and Structural Analysis: Synthesis or Antithesis?"

In addition to the Introductory Reports VIIa and VIIb, it seems appropriate to describe the themes for both sessions:

#### **A. Hardware and software systems evaluation and qualification problems**

Choice and organization of hardware and software in relation to structural design objectives and requirements; "quality control" of programs; standardization of input, output; software classification, indexing, information retrieval and maintenance. Danger of diffusion of uncontrolled-quality programs, especially with dissemination of minis.

#### **B. Compatibility of computer applications (in structural analysis) with design practice**

- Adaptation of educative programmes (teaching how to use correctly c.s.a., both in engineering schools and in recycling courses for professionals)
- Adaptation of communication structures (dissemination of information about hardware and software possibilities and limits, communication with and between computers (computer networks); telephone mass service to users; communication with people: graphics, intermediate and final written documents, etc.)
- Adaptation of legislative structure, e.g. interaction with building codes; legal liabilities for errors or misuse of programs; proprietary rights etc.
- Adaptation of economic structure: costs, cost/benefit analysis, rates and tariff structure for users etc.
- Adaptation (integration) with earlier and subsequent phases of "design": e.g. with planning and fabrication.

Intending authors are invited to submit papers along this line.

**Leere Seite**  
**Blank page**  
**Page vide**