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COMPUTUMAG

***CONFERENCE ON THE COMPUTATION
OF MAGNETIC FIELDS***

COMMUNICATIONS PROCEEDINGS

GRENOBLE
4, 5, 6 Sept. 1978

Conference organised and Proceedings published by
Laboratoire d'Electrotechnique
ENSEGP

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FOREWORD

The second venue of COMPUMAG held in Grenoble (September 4-6, 1978) was a large survey of the state of art in computer methods for electromagnetic apparatus and system design.

The major topics of utmost interest for the delegates were :

- . Three Dimensional programs and integral equations for magnetostatic fields
- . Time varying field in two and three dimensions (eddy currents problems)
- . Computer aided design technics (graphics).

In addition to the formal presentation of Conference graded papers, two panels were organized for special purpose oriented papers. In the panel on electrical machines computation methods, seven papers have shown an exciting application of field computation. The panel on High Energy Physics and Tokamaks was oriented to the design of large magnets and the computation of field in plasma devices.

All the 33 Conference papers and 12 panels papers are included in the Proceedings. Moreover 15 Proceedings papers taken into account for their interest but not presented owing to time limits have been included in the Proceedings.

A series of demonstrations using graphic technics have shown the importance of these facilities for the design of electromagnetic systems.

The exhibitors : Comeda (UK) and CISI (France) as private firms, Rutherford Laboratory, Imperial College of Science and Technology (UK) and Laboratoire d'Electrotechnique de Grenoble as governmental organizations are acknowledged for the quality of their exhibitions.

I must express my appreciation to the delegates, the invited speakers, and members of various committees for their effort in making the Conference a success, and Prof. Bloch chairman of the Ecole Nationale Supérieure d'Electrotechnique et de Génie Physique who greeted the Conference. Finally my thanks to the Délégation Générale à la Recherche Scientifique et Technique and the Centre National de la Recherche Scientifique without whose support this Conference could not have taken place.

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