

**Advances in Boundary  
Element Techniques VI**

Edited by  
A.P S Selvadurai  
C L Tan  
M H Aliabadi

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**International Conference**  
**on**  
**Boundary Element Techniques VI**  
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## PREFACE

The Conferences in Boundary Element Techniques are devoted to fostering the continued involvement of the research community in identifying new problem areas, mathematical procedures, innovative applications and novel solution techniques in both boundary element methods (BEM) and boundary integral equation techniques (BIEM). Previous successful conferences devoted to Boundary Element Techniques were held in London, UK (1999), New Jersey, USA (2001), Beijing, China (2002), Granada, Spain (2003) and Lisbon, Portugal (2004).

The present volume is a collection of edited papers that were accepted for presentation at the Boundary Element Techniques Conference held in Montréal, Canada, during 27<sup>th</sup> to 29<sup>th</sup> July 2005. Research papers received from 21 countries formed the basis for the Technical Program. The themes considered for the technical program included, solid mechanics, fluid mechanics, potential theory, composite materials, fracture mechanics, damage mechanics, contact and wear, optimization, heat transfer, dynamics and vibrations, acoustics and geomechanics. These papers are included here in three broad categories of Solids and Structures, Thermo-Fluids and Acoustics and, New Formulations and Computational and Mathematical Aspects.

The Keynote Lectures were given by Professor Dr. Lothar Gaul (Institut A für Mechanik, Universität Stuttgart, Germany) and Professor Ney Dumont (Departamento de Engenharia Civil, Pontificia Universidade Católica do Rio de Janeiro, PUC-Rio). Other invited presentations were given by R.Abascal, G.Beer, M.Denda, A.Frangi, R.Gallego, S.Hirose, S.A.Kinnas, V.Mantic, S.Mikhailov, Y.Ochiai, A.Sellier, M.Schanz, P.Sollero, M.Tanaka and J.C.F.Telles.

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Editors  
July 2005



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