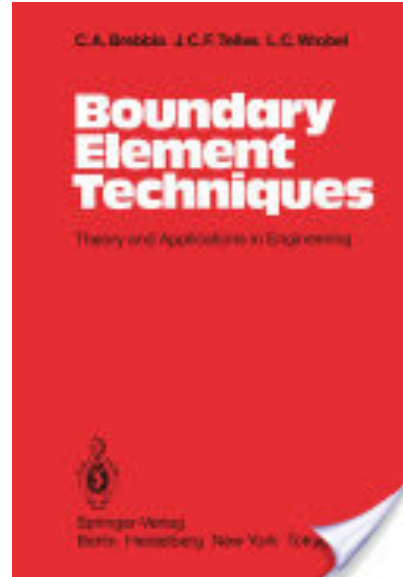




Professor Carlos A. Brebbia



C.A. Brebbia, J.C.F. Telles & Luiz Wrobel, Boundary Element Techniques: Theory and Applications in Engineering, Springer, 2012, 464 pages

See:

https://en.wikipedia.org/wiki/Wessex_Institute_of_Technology

<http://www.wessex.ac.uk/about/professor-carlos-brebbia>

<https://www.youtube.com/watch?v=ae1iofobMLk>

<http://www.wessex.ac.uk/research/wit-staff/861-prof-carlos-brebbia>

https://www.researchgate.net/profile/Ca_Brebbia

http://www.richardpoynder.co.uk/Carlos_Brebbia_Interview.pdf

http://www.boundaryelements.com/index.php?option=com_content&view=article&id=16:brebbia-professor-carlos-a-&catid=8:boundary-element-researchers&Itemid=39

BIOGRAPHY:

Professor Carlos Brebbia is the Director of the Wessex Institute of Technology. He was born in Argentina where he completed his first engineering degree. He spent two stimulating years after graduation as part of a small team setting up an Institute of Applied Mechanics. Following this, he registered at Southampton University in England for a high degree, arranging to carry out his research partly at MIT.

After obtaining his PhD at Southampton, he worked at a UK Research Laboratory before taking an academic appointment at Southampton University where he rose from Lecturer to Senior Lecturer and Reader. During his time at Southampton he took leave to become Visiting Professor at many other universities, including Princeton.

After having been appointed full Professor of Engineering at the University of California, Irvine, he decided to return to the UK to set up the Wessex Institute in the New Forest.

Professor Brebbia is renowned throughout the world as the originator of the Boundary Element Method, a technique that continues to generate important research work at the Wessex Institute. He has written numerous

scientific papers and is author or co-author of 14 technical books and editor or co-editor of more than 400 volumes. He has also written two other non technical books, ie "The New Forest. A Personal View" and "Patagonia, the forgotten land".

He is Editor-in-Chief of the International Journal of Engineering Analysis with Boundary Elements and, more recently, his interest in ecological and environmental topics has led him to become co-editor of the new International Journal of Ecodynamics and International Journal of Sustainable Development and Planning.

Carlos' interests span from the analysis of advanced structures such as shells to the modelling of environmental problems, dealing with a wide variety of methodologies. His most recent efforts have been concentrated on the development of Wessex Institute as an international centre of excellence.

CURRENT POSITIONS:

Director of Wessex Institute of Technology, New Forest (The Institute is validated by the University of Wales)
Chairman of Computational Mechanics International Group of companies
Professor of Computational Engineering, University of Portsmouth

SPECIAL HONOURS:

Medaille de la Ville de Paris, Echelon Argent.
Medaille of the Masonnet Foundation, University of Liege, Belgium.
Visiting Professor for Special Lecture Series at the Free University of Brussels, Belgium.
Visiting Professor for Special Lecture Series at the University of Florence, Italy.
Fellow of the Institution of Mechanical Engineers (IIMEchE)
Founding President - ASCE-UK Chapter.
Honorary PhD at University of Bucharest.
Freedom of the City of London and Liveryman to the Worshipful Company of Scientific Instrument Makers.
Permanent Member of the Prize Committee for the Prigogine Medal.
Member of the Prize Council of the Prince Sultan Bin Abdulaziz International Prize for Water.
Fellow of the Royal Society of Arts (Royal Society for the encouragement of Arts, Manufactures and Commerce).

JOURNALS & SERIES PUBLICATIONS:

Professor Brebbia is member of the Board of numerous book series and has launched 10 international journals, some of which have been assigned to Elsevier. At present he is an active main Editor or Co-Editor of the following journals:

1. Editor in Chief and Founder of the International Journal on "Engineering Analysis with Boundary Elements" published by Elsevier.
2. Co-Editor of the "International Journal of Ecodynamics".
3. Co-Editor of the "International Journal of Sustainable Development and Planning".
4. Co-Editor of the "International Journal of Design and Nature".
5. Main Editor of the Transactions of Wessex Institute (which includes sections on Ecology and the Environment).

TRAINING FILMS:

"Finite Elements". The film was produced by Rutherford Computing Laboratory with computer animations provided by Professor Brebbia.

"Boundary Elements". This film was produced by Professor Brebbia demonstrating the technique he developed.

PAPERS:

More than 300 papers published in scientific journals and conference proceedings.

MAIN INTERESTS:

Computational Methods in Engineering, including his technique of Boundary Elements; Environmental Simulation; Ecological Modelling; and Sustainable Development.

BOOKS WRITTEN:

- TECHNICAL BOOKS - 14 technical books produced by different Publishers - among them McGraw Hill, Elsevier, Springer Verlag, Computational Mechanics Publications, WIT Press - and translated into several major languages.

- NON-TECHNICAL BOOKS

"The New Forest. A Personal View". Fourth Edition. WIT Press, Southampton and Boston, 2006.

"Patagonia. The Forgotten Land. From Magellan to Peron". WIT Press, Southampton and Boston, 2007.

- EDITED BOOKS

More than 400 books edited.

SELECTED PUBLICATIONS:

J. Connor and C. Brebbia, "Stiffness matrix for shallow rectangular shell element", ASCE Journal of the Engineering Mechanics Division, No. EM5, October 1967

C. A. Brebbia and J. M. Deb Nath (Civil Engineering Department, University of Southampton), "A comparison of recent shallow shell finite-element analyses", International Journal of Mechanical Sciences, Vol. 12, No. 10, October 1970, pp. 849-857, doi:10.1016/0020-7403(70)90022-6

ABSTRACT: Recent advances in the analysis of shallow shells by finite-element technique are reviewed and results obtained using different stiffness matrices compared. The question of including rigid body modes in the prescribed displacement field is discussed. It is found that the constant strain condition, other than the trivial one—i.e. rigid body modes—cannot be satisfied in the case of curved plates and shells.

C.A. Brebbia and J. Connor, "Geometrically nonlinear finite element analysis", Proc. ASCE, Vol. 95, No. EM2, 1971, pp. 463-483

Tottenham, H. and Brebbia, C. (ed.): Finite Element Techniques in Structural Mechanics, Stress Analysis Publishers, Southampton 1971