

# Maple Code For Homotopy Analysis Method

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software programming techniques

this report gives programmers information useful for the utilization and modification of bca and hra two programs for computing economic equilibria the bca implements the bilinear complementarity algorithm and hra a homotopy retraction algorithm the report describes the subroutines and variables used as well as the usual documentation input format sample input and output for two problems and program listings author

this pioneering study of two dimensional wiring patterns develops powerful algorithms for the physical design of vlsi circuits its homotopic approach to circuit layout advances the state of the art in wire routing and layout compaction and will inspire future research by viewing wires as flexible connections with fixed topology the author obtains simple and efficient algorithms for cad problems whose previous solutions employed unreliable or inefficient heuristics single layer wire routing and compaction is the first rigorous treatment of homotopic layouts and the techniques for optimizing them in a novel application of classical mathematics to computer science maley characterizes the ideal routing of a layout in terms of simple topological invariants he derives practical algorithms from this theoretical insight the algorithms and their underlying ideas are intuitive widely applicable and presented in a highly readable style f miller maley is a research associate in the computer science department at princeton university single layer wire routing and compaction is included in the series foundations of computing edited by michael garey and albert meyer

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