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An alternative to unstructured grids for computing gas dynamic flows around arbitrarily complex two-dimensional bodies. (English) [Zbl 0788.76067](#)

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The author describes an alternative approach for dealing with complex two-dimensional geometries. A number of practical problems are mentioned, and methods to overcome these problems are explained. A general strategy for the conversion of an adaptive mesh algorithm from a body-fitted code to a boundary code is illustrated.

Reviewer: [P.K.Mahanti \(Ranchi\)](#)

MSC:

[76M99](#) Basic methods in fluid mechanics

[65M50](#) Mesh generation, refinement, and adaptive methods for the numerical solution of initial value and initial-boundary value problems involving PDEs

[65N50](#) Mesh generation, refinement, and adaptive methods for boundary value problems involving PDEs

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[adaptive mesh algorithm](#); [body-fitted code](#); [boundary code](#)

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