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A variation of the second condition occurs when the heat flux is by radiation from a source of known temperature  $T_s$ :  $-\lambda (\partial T / \partial n) w = \alpha F T_s^4$  in which  $F$  is a view factor and  $\alpha$  is the Stefan-Boltzmann constant. When either the second or third conditions apply, the wall temperature  $T_w$  must be found as part of the solution.

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The numerical procedure involves grid generation, energy equation transformation from physical domain to numerical domain and radiation and natural convection boundary treatment. 1999 Elsevier Science Ltd Introduction Numerically solving a heat conduction problem is an old topic [1, 2, 3, 4].

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Numerical Heat Transfer and Fluid Flow (Hemisphere Series on Computational Methods in Mechanics and Thermal Science) 1st edition by Patankar, Suhas (1980) Hardcover ... Numerical Solution of Partial Differential Equations by the Finite Element Method (Dover Books on Mathematics) Claes Johnson. 3.9 out of 5 stars 23. Paperback. \$11.32.

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Patankar is the author of a book in computational fluid dynamics titled Numerical Heat Transfer and Fluid Flow which was first published in 1980.

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Variations of the SIMPLE method of Patankar and Spalding have been widely used over the past decade to obtain numerical solutions to problems involving incompressible flows. The present paper shows several modifications to the method which both simplify its implementation and reduce solution costs.

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The SIMPLE algorithm was developed by Prof. Brian Spalding and his student Suhas Patankar at Imperial College, London in the early 1970s. Since

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