

**Hemker, P. W.**

**Mixed defect correction iteration for the accurate solution of the convection diffusion equation.** (English) [Zbl 0505.65047](#)

Multigrid methods, Proc. Conf., Kloen-Porz 1981, Lect. Notes Math. 960, 485-501 (1982).

For a scan of this review see the [web version](#).

**MSC:**

- [65N22](#) Numerical solution of discretized equations for boundary value problems involving PDEs
- [65N50](#) Mesh generation, refinement, and adaptive methods for boundary value problems involving PDEs
- [35K20](#) Initial-boundary value problems for second-order parabolic equations
- [76R99](#) Diffusion and convection
- [65N12](#) Stability and convergence of numerical methods for boundary value problems involving PDEs

Cited in **3** Reviews  
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**Keywords:**

singular perturbation; defect correction; local mode analysis; convection-diffusion equation; artificial viscosity; multigrid method; numerical results