

Le Tallec, Patrick; Tidriri, Moulay D.

Application of maximum principles to the analysis of a coupling time marching algorithm.
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Summary: We study the convergence properties of a coupling time marching algorithm solving convection-diffusion problems on two domains using incompatible approximations. Convergence properties are obtained using local and global estimates of the solutions of convection-diffusion problems. © Academic Press.

MSC:

[35B50](#) Maximum principles in context of PDEs

[65N12](#) Stability and convergence of numerical methods for boundary value problems involving PDEs

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