

ISNM  
Vol. 156

# Singularly Perturbed Boundary-Value Problems

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$$U_\varepsilon = U_0(x, t) + \varepsilon U_1(x, t) + V_0(x, \tau) + \varepsilon V_1(x, \tau) + R_\varepsilon(x, t), \\ (x, t) \in D_T, \tau = t/\varepsilon,$$

$$\|R_{1\varepsilon}\|_{C(\bar{D}_T)} = \mathcal{O}(\varepsilon^{9/8}), \quad \|R_{2\varepsilon}\|_{C(\bar{D}_T)} = \mathcal{O}(\varepsilon^{11/8})$$

**Birkhäuser**