

## Publications

### Book edited

- [1] Mark Alber, Bei Hu, and Jochim Rosenthal (eds.), *Current and future directions in applied mathematics*, Birkhäuser Boston Inc., Boston, MA, 1997. MR **1445095** (**97j**:00017)

### Book translated

- [1] YA-ZHE CHEN AND LAN-CHENG WU, *Second order elliptic equations and elliptic systems*, translated by Bei Hu, Translations of Mathematical Monographs, vol. 174, American Mathematical Society, Providence, RI, 1998. MR **1616087** (**99i**:35016)

### Refereed papers

- [1] BEI HU, *Fully nonlinear elliptic equations with gradient constraint*, Beijing Daxue Xuebao (Journal of Peking University) (1986), no. 5, 78–91 (English). MR **959408** (**89k**:35102)
- [2] BEI HU, *Boundary value problems for fully nonlinear elliptic equations with sufficiently large coefficients in the zero-order terms*, Journal of Mathematical Research and Exposition **7** (1987), no. 4, 615–626 (Chinese). MR **938240** (**90a**:35090)
- [3] BEI HU, *Periodic solutions of the parabolic Bellman equation and their stability*, Advances in Mathematics (Beijing) **17** (1988), no. 2, 164–168 (Chinese, with English summary). MR **960937** (**89i**:35008)
- [4] BEI HU, *Obstruction problems for a class of nonlinear elliptic equations*, Journal of Partial Differential Equations Ser. B **1** (1988), no. 1, 1–11 (Chinese). MR **986423** (**90c**:35097)
- [5] AVNER FRIEDMAN AND BEI HU, *The Stefan problem for a hyperbolic heat equation*, Journal of Mathematical Analysis and Application **138** (1989), no. 1, 249–279. MR **988334** (**90d**:35307)
- [6] BEI HU, *A quasi-variational inequality arising in elastohydrodynamics*, SIAM Journal on Mathematical Analysis **21** (1990), no. 1, 18–36. MR **1032725** (**91c**:35163)
- [7] BEI HU, *A free boundary problem for a Hamilton-Jacobi equation arising in ion etching*, Journal of Differential Equations **86** (1990), no. 1, 158–182. MR **1061895** (**91k**:35256)
- [8] BEI HU, *A fiber-tapering problem*, Nonlinear Analysis: Theory, Method and Application **15** (1990), no. 6, 513–525. MR **1072310** (**92g**:35212)
- [9] AVNER FRIEDMAN AND BEI HU, *A free boundary problem arising in electrophotography*, Nonlinear Analysis: Theory, Method and Application **16** (1991), no. 9, 729–759. MR **1097128** (**92g**:35241)
- [10] BEI HU, *Diffusion of penetrant in a polymer: a free boundary problem*, SIAM Journal on Mathematical Analysis **22** (1991), no. 4, 934–956. MR **1112057** (**92d**:35309)
- [11] AVNER FRIEDMAN AND BEI HU, *Homogenization approach to light scattering from polymer-dispersed liquid crystal films*, SIAM Journal on Applied Mathematics **52** (1992), no. 1, 46–64. MR **1148318** (**92m**:78016)
- [12] BEI HU, *A nonlinear nonlocal parabolic equation for channel flow*, Nonlinear Analysis: Theory, Method and Application **18** (1992), no. 10, 973–992. MR **1166535** (**93f**:35120)
- [13] AVNER FRIEDMAN, BEI HU, AND J. J. L. VELÁZQUEZ, *A free-boundary problem modeling loop dislocations in crystals*, Archive for Rational Mechanics and Analysis **119** (1992), no. 3, 229–291. MR **1179472** (**93h**:35217)
- [14] AVNER FRIEDMAN AND BEI HU, *The Stefan problem with kinetic condition at the free boundary*, Annali della Scuola Normale Superiore - Pisa Cl. Sci. (4) **19** (1992), no. 1, 87–111. MR **1183759** (**93k**:35277)
- [15] BEI HU AND LIHE WANG, *A free boundary problem arising in electrophotography: solutions with connected toner region*, SIAM Journal on Mathematical Analysis **23** (1992), no. 6, 1439–1454. MR **1185637** (**93i**:35158)
- [16] AVNER FRIEDMAN AND BEI HU, *A free boundary problem arising in superconductor modeling*, Asymptotic Analysis **6** (1992), no. 2, 109–133. MR **1193107** (**93k**:82071)
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**Papers accepted for publication.**

- [77] AVNER FRIEDMAN, BEI HU, AND CHUANG XUE, *A three dimensional model of wound healing: analysis and computation*, *Discrete and Continuous Dynamical Systems - Series B* (to appear).
- [78] XINFU CHEN, JONGSHENQ GUO, AND BEI HU, *Dead-core rates for the porous medium equation with a strong absorption*, *Discrete and Continuous Dynamical Systems - Series B* (to appear).
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- [80] WENRUI HAO, JONATHAN D. HAUENSTEIN, BEI HU, YUAN LIU, ANDREW J. SOMMESE, AND YONG-TAO ZHANG, *Continuation along bifurcation branches for a tumor model with a necrotic core*, *Journal of Scientific Computing*.