

Mock, M. S.

Asymptotic behavior of solutions of transport equations for semiconductor devices. (English)

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MSC:

35K50 Systems of parabolic equations, boundary value problems (MSC2000)

Cited in **31** Documents

35K45 Initial value problems for second-order parabolic systems

35B40 Asymptotic behavior of solutions to PDEs

Full Text: [DOI](#)

References:

- [1] De Mari, A, An accurate numerical one-dimensional solution of the p - n junction under arbitrary transient conditions, Solid state electronics, 11, 1021-1053, (1968)
- [2] Gokhale, B.V, Numerical solutions for the one-dimensional silican n - p - n transistor, IEEE trans. elec. dev, ED-17, 594-602, (1970)
- [3] Hachtel, G.D; Joy, R.C; Cooley, J.W, A new efficient one-dimensional analysis program for junction device modeling, (), 86-98
- [4] Mock, M.S, On equations describing steady-state carrier distributions in a semiconductor device, Comm. pure appl. math., 25, 781-792, (1972)
- [5] {scM. S. Mock}, An initial-value problem from semiconductor device theory, $\textit{SIAM J. Math. Anal.}$, to appear. · Zbl 0254.35020
- [6] Moll, J.L, Physics of semiconductors, (1964), McGraw-Hill New York · Zbl 0151.45902
- [7] Van Roosbroeck, W, Theory of the flow of electrons and holes in germanium and other semiconductors, Bell sys. tech. J., 29, 560-607, (1950) · Zbl 1372.35295

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