

论文

## QUENCHING PHENOMENA FOR SYSTEMS OF SEMILINEAR PARABOLIC EQUATIONS I

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**摘要** Initial-boundary value problems for a class of systems of semilinear parabolic equations with singular terms are investigated, conditions for the existence and nonexistence of the global solutions to the above problems are given, and upper bounds of the quenching time and the critical length are obtained.

**关键词** [Quenching](#), [critical length](#), [quenching ti](#)

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**Abstract** Initial-boundary value problems for a class of systems of semilinear parabolic equations with singular terms are investigated, conditions for the existence and nonexistence of the global solutions to the above problems are given, and upper bounds of the quenching time and the critical length are obtained.

**Key words** [Quenching](#), [critical length](#), [quenching time](#), [initial-boundary value problem](#), [systems of parabolic equa](#)

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