

Wang, F.; Sun, S.

Existence and multiplicity of positive solutions for singular Monge-Ampère system. (English)

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Summary: Using the fixed point theorem in a cone, the existence and multiplicity of radial convex solutions of singular system of Monge-Ampère equations are established.

MSC:

34B16 Singular nonlinear boundary value problems for ordinary differential equations

Cited in 1 Document

34B08 Parameter dependent boundary value problems for ordinary differential equations

34B18 Positive solutions to nonlinear boundary value problems for ordinary differential equations

35B07 Axially symmetric solutions to PDEs

35J96 Monge-Ampère equations

47E05 General theory of ordinary differential operators (should also be assigned at least one other classification number in Section 47-XX)

Keywords:

singular Monge-Ampère system; radial convex solution; fixed point theorem

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