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A simple method for group analysis and its application to a model of detonation. (English)

Zbl 0761.35104

J. Math. Phys. 33, No. 11, 3931-3937 (1992).

Summary: A simple procedure is suggested to obtain extensions of the principal Lie algebra, for invariance transformations of a given family of equations, by using an equivalence algebra. An application to a qualitative model of detonation is performed.

MSC:

35Q58 Other completely integrable PDE (MSC2000)

37C80 Symmetries, equivariant dynamical systems (MSC2010)

76V05 Reaction effects in flows

Cited in **19** Documents

Keywords:

[invariance transformations](#); [equivalence algebra](#)

Full Text: [DOI](#)

References:

- [1] DOI: 10.1007/BF01097533 · Zbl 0760.35002 · doi:10.1007/BF01097533
- [2] DOI: 10.1063/1.529042 · Zbl 0737.35099 · doi:10.1063/1.529042
- [3] DOI: 10.1119/1.11973 · doi:10.1119/1.11973
- [4] DOI: 10.1016/0167-2789(87)90119-9 · Zbl 0631.76070 · doi:10.1016/0167-2789(87)90119-9
- [5] DOI: 10.1063/1.866245 · Zbl 0622.76071 · doi:10.1063/1.866245

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