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A network model for two-fluid, two-phase flow. (English) Zbl 0637.76112
Numer. Methods Partial Differ. Equations 1, 295-313 (1985).

A systematic derivation is given of two-fluid conservation laws on an arbitrary network. These laws are shown to conserve the mass and total energy of the mixture in the network. Numerical simulations are presented to illustrate their use.

MSC:

76T99 Multiphase and multicomponent flows
76M99 Basic methods in fluid mechanics

Cited in **1** Review
Cited in **7** Documents

Keywords:

network model for two-fluid; averaging techniques; coupled Navier-Stokes systems; discretization; two-fluid conservation laws

Full Text: [DOI](#)

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