

PROBLEMS IN REVERSE ROUTING

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Abstract

In contrast to direct downstream routing of flood flows, the complementary problem of reverse upstream routing is ill-posed and the calculations are subject to instability. However, the reverse routing procedure is useful both in irrigation management and in the control of flash floods by upstream reservoirs. Systematic study of reverse routing in uniform channels reveals a number of features that could prove of value in optimising such procedures.

Key words: flood routing, reverse routing, instability.