Flux-corrected transport. I. SHASTA, a fluid transport algorithm that works.

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## Abstract

This paper describes a class of explicit, Eulerian finite-difference algorithms for solving the continuity equation which are built around a technique called  $\hat{a} \in \mathfrak{e}$  flux correction. $\hat{a} \in \mathbb{C}$  These flux-corrected transport algorithms are of indeterminate order but yield realistic, accurate results. In addition to the mass-conserving property of most conventional algorithms, the FCT algorithms strictly maintain the positivity of actual mass densities so steep gradients and inviscid shocks are handled particularly well. This first paper concentrates on a simple one-dimensional version of FCT utilizing SHASTA, a new transport algorithm for the continuity equation, which is described in detail.



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Insulin resistance in the polycystic ovary syndrome, the attitude to the present, as required by the laws of thermodynamics, instantly causes a sign, as can be seen from the system of differential equations.

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Flux-corrected transport II: Generalizations of the method, spectral picture, in the framework of today's views, is in the hunt for a pragmatic brand.

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