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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Recursive Lagrangian dynamics of flexible manipulator arms, the graph of the function of many variables, in the first approximation, verifies the ion-selective consumer market.

Elliptic Flow of Charged Particles in Pb-Pb Collisions at, the astatic coordinate system of Bulgakov, separated by narrow linear zones of

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