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Title: Solution of continuity equations by the method of flux-corrected transport

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Continuity equations in physics are considered along with the requirements for finite-difference algorithms and the types of errors to be minimized. The elements of flux-corrected transport (FCT) are examined, taking into account the development of the basic ideas, comparisons with standard techniques, three types of antidiffusion, the flux-correction process, and a number of FCT algorithms. The optimization of FCT algorithms is discussed and a description is provided of the applications of flux-corrected transport. Attention is given to a two-dimensional laser-target model, a moving flux coordinate code, and a novel application made possible by the nonlinear properties of FCT.

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