Modeling of multicomponent radiatively driven stellar winds using Newton-Raphson method

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We present a simple method for solution of onecomponent and multicomponent hydrodynamic equations based on the Newton-Raphson method. We show that this method can be used for the solution of stationary hydrodynamic equations. This method has been used for the calcuation of the low density stellar wind models for which the multicomponent nature of the wind influences the overall wind structure.