A OR2 Standard model atmospheres and non-LTE effects

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For a detailed study of stars physically consistent models of stellar atmospheres which include physical effects like NLTE, velocity field, gravity darkening, inhomogeneous composition or magnetic field, are necessary. Methods of calculating NLTE model stellar atmospheres are reviewed, as well as recent developments in the theory of stellar atmospheres. Necessary simplifications are discussed with respect to various physical properties of different A-type stars.