



Modelling of Solar Granulation

By Obertscheider, Christof

Condition: New. Publisher/Verlag: Südwestdeutscher Verlag für Hochschulschriften | Implementation and Comparison of Numerical Schemes | The mathematical part covers the implementation and comparison of different numerical schemes to solve the equations of radiation hydrodynamics. One and the same two-dimensional model of solar granulation is simulated with different high resolution numerical methods (essentially non-oscillatory and convex non-oscillatory) and non-grey short characteristic radiative transfer. Furthermore the influence of artificial diffusivities is studied. The second part covers two astrophysical applications. A two-dimensional non-grey high resolution simulation of a downflowing plume in the sun and a grey three-dimensional simulation of the quiet sun are presented. | Format: Paperback | Language/Sprache: english | 84 pp.

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