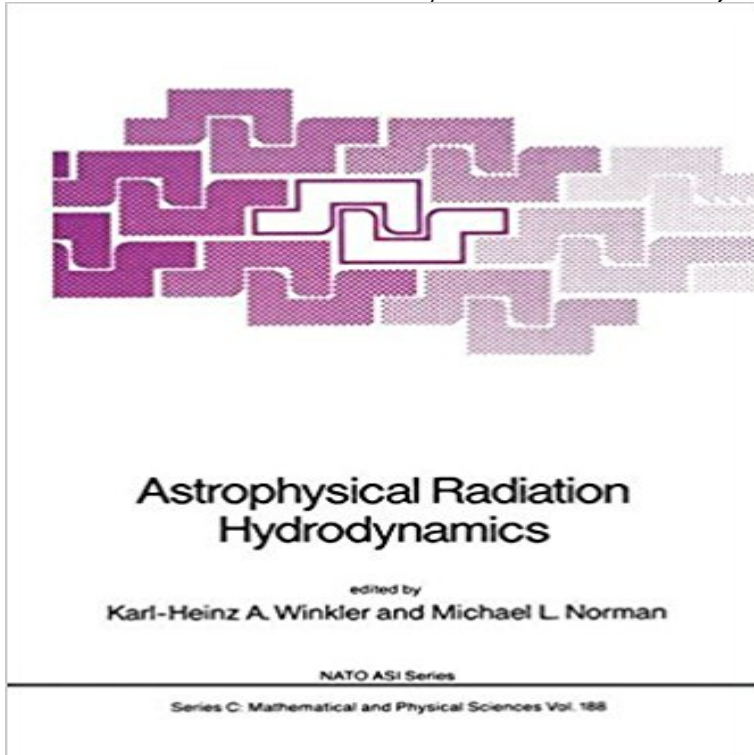


Astrophysical Radiation Hydrodynamics (Nato Science Series C: Mathematical and Physical Sciences)



This NATO Advanced Research Workshop was devoted to the presentation, evaluation, and critical discussion of numerical methods in nonrelativistic and relativistic hydrodynamics, radiative transfer, and radiation-coupled hydrodynamics. The unifying theme of the lectures was the successful application of these methods to challenging problems in astrophysics. The workshop was subdivided into 3 somewhat independent topics, each with their own subtheme. Under the heading radiation hydrodynamics were brought together context, theory, methodology, and application of radiative transfer and radiation hydrodynamics in astrophysics. The intimate coupling between astronomy and radiation physics was underscored by examples from past and present research. Frame-dependence of both the equation of transfer (plus moments) and the underlying radiation quantities was discussed and clarified. Limiting regimes in radiation-coupled flow were identified and described; the dynamic diffusion regime received special emphasis. Numerical methods for continuum and line transfer equations in a given background were presented. Two examples of methods for computing dynamically coupled radiation/matter fields were given. In 1-d and assuming LTE the complete equations of radiation hydrodynamics can be solved with current computers. Such is not the case in 2- or 3-d, which were identified as target areas for research. The use of flux-limiters was vigorously discussed in this connection, and enlivened the meeting.

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I - The behaviour of the Eddington factor and** Astrophysical Radiation Hydrodynamics (Nato Science Series C:) at - ISBN 10: Series C: Mathematical and Physical Sciences Vol. 188. **Patrick M. Motl - Indiana University Kokomo** (Nato Science Series: C Mathematical And Physical Sciences. Volume 545). 1999 .. Astrophysical Formulae: Volume I & Volume II: Radiation,. Gas Processes And High Volume C: Hydrodynamics And Dynamical Systems. 2002. Springer. **Translation Tools for High Performance Computing - Springer** Although this series no longer publishes new content, the published titles listed below may be still available on-line (e. g. via the Springer Book Archives) and in **Astrophysical Radiation Hydrodynamics (Nato Science Series C:)** (PDF, 60156 KB) Download Chapter (6,537 KB). Chapter. Astrophysical Radiation Hydrodynamics. 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