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Field Theory Initially an informal introduction to the "matter" section, this has now expanded to become a major part of the book. Matter Starting with the reaction cross sections as computed from field theory we develop kinetic theory and the Boltzmann transport equation, which in turn forms the basis for fluid dynamics.

Elements of Astrophysics - Institute for Astronomy

PHAS3136 is a third year undergraduate course designed to provide an introduction to cosmology and extragalactic astronomy (Syllabus.pdf) [CourseDescription.pdf]. The only pre-requisites are basic mathematical skills (i.e., elementary calculus) and general familiarity with astronomical nomenclature and principles, plus PHAS2112 - Astrophysical Processes: Nebulae to Stars.

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