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This book grew out of the author's notes

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from his course on Radiative Processes in High Energy Astrophysics. The course provides fundamental definitions of radiative processes and serves as a brief introduction to Bremsstrahlung and black body emission, relativistic beaming, synchrotron emission and absorption, Compton scattering, synchrotron self-

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compton emission, pair creation and emission.

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1.5 Radiative energy density We can define it as the energy per unit volume produced by a luminous source, but we

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have to specify if it is per unit solid angle or not. For simplicity consider the bolometric intensity I . Along the light ray, construct the volume $dV = cdt dA$ where dA (i.e. one cm^2) is the base of the little cylinder of height cdt .

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~~ENERGY ASTROPHYSICS~~ Lecture Notes

Radiative processes in astrophysics
emission line formation and analysis;
continuous and absorption line spectra;
cosmic dust and extinction. Physics of
interactions between high-energy
particles and radiation (synchrotron,
inverse-Compton, thermal

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bremsstrahlung). The interstellar and intergalactic medium. High-energy astrophysics accretion onto compact objects; the Eddington limit; black holes, active galaxies and relativistic jets.

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energies by non-relativistic shocks via the so-called first-order Fermi process. With an annotated diagram, explain how this process occurs, and give quantitative examples of the maximum particle energies expected in Galactic and Extragalactic scenarios. (b) [10 marks] Take the probability that an individual particle may

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re-cross the shock to be

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The non-radiative pathway shown in Figure 14 is the mechanism that is typically used in most textbooks to represent energy transfer processes. Non-

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These are a collection of lectures covering
topics in an introductory graduate
astrophysics course on radiative processes.
The subject matter is loosely drawn from

Read Online Radiative Processes In High Energy Radiative Processes in Astrophysics by Rybicki & Lightman. At the end of the semester, each student will develop one new lecture on a subject of their choice to add to this website.

~~Radiative Processes in Astrophysics~~
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Instantaneous photon emission due to an ion-atom collision becomes important when the velocity or the charge of an incident ion is very high, in which case the energy of the emitted photon is high. The reason for the importance is that the probability (rate) of photon emission is proportional to the density of the final

Read Online Radiative Processes In High Energy state (photon momentum space), which increases in proportion to the square of the photon energy.

~~Radiative processes in high energy ion-atom collisions ...~~

This book grew out of the author's notes from his course on Radiative Processes in

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provides fundamental definitions of radiative processes and serves as a brief introduction to Bremsstrahlung and black body emission, relativistic beaming, synchrotron emission and absorption, Compton scattering, synchrotron self-compton emission, pair creation and

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High particle energies imply high energy photons. When the photon energy exceeds the rest mass energy of electrons, and when the photon density is high enough,

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2. Physics in a strong magnetic field. 3. Magnetized plasma response properties. 4. Magnetized radiative processes: nonrelativistic limit. 5. Relativistic radiation processes. 6. Radiation transport

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in strongly magnetized plasmas. 7.
Accreting X-ray pulsars. 8. Rotation-
powered pulsars. 9. Gamma-ray bursters.
10. Super-high-energy gamma-ray
sources. 11.

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