

Astro 402 Spring 2005

Textbooks

Here is a list of books we will be consulting during the semester. The first two are the course textbooks, the others useful as additional material and background. All are on the reserve shelf in the library.

Textbooks

D.A. Ostlie and B.W. Carroll: An Introduction to Modern Stellar Astrophysics (1996, Addison-Wesley)

S.W. Stahler and F. Palla: The Formation of Stars (Wiley VCH)

Additional Texts

L. Blitz (ed): The Evolution of the Interstellar Medium ASP Conference Series vol 12

B.W. Carroll and D.A. Ostlie: An Introduction to Modern Astrophysics

G.B. Rybicki and A.P. Lightman: Radiative Processes in Astrophysics

H.C. van de Hulst: Light Scattering by Small Particles

C.E. Woodward, M.D. Bica and J.M. Shull (eds): Galactic Structure, Stars and the Interstellar Medium (ASP Conf Ser 231)

D.E. Osterbrock: Astrophysics of Gaseous Nebulae and Active Galactic Nuclei

J.P. Cassinelli and E.B. Churchwell (eds): Massive Stars: Their Lives in the Interstellar Medium (ASP Conf Ser 35)

T. Padmanabhan: Theoretical Astrophysics I. Astrophysical Processes

T. Padmanabhan: Theoretical Astrophysics II. Stars and Stellar Systems

A.G.G.M. Tielens: The Physics and Chemistry of the Interstellar Medium

S. Chandrasekhar: An Introduction to the Study of Stellar Structure

M. Schwarzschild: Structure and Evolution of the Stars

C.J. Hansen, S.D. Kawaler and V. Trimble: Stellar Interiors - Physical Principles, Structure and Evolution

Y. Nakada, M. Honma and M. Seki (eds): Mass-Losing Pulsating Stars and their Circumstellar Matter

J.P. Cox: Theory of Stellar Pulsation

I. Iben, A. Renzini and D.N. Schramm: Advanced Stages in Stellar Evolution (Saas-Fee Lectures 1977)

F.H. Shu: The Physics of Astrophysics I. Radiation

F.H. Shu: The Physics of Astrophysics II. Gas Dynamics

C.A. Tout and W van Hamme (eds): Exotic Stars as Challenges to Evolution (ASP Conf Ser 279)

A.R. Taylor and J.M. Paredes (eds): Radio Emission from the Stars and the Sun (ASP Conf Ser 93)

D.L. Lambert (ed): Frontiers of Stellar Evolution (ASP Conf Ser 20)

M.R. Haas, J.A. Davidson and E.F. Erickson (eds): Airborne Astronomy Symposium on the Galactic Ecosystem: From Gas to Stars to Dust (ASP Conf Ser 73)

H.A. Thronson and J.M. Shull (eds): The Interstellar Medium in Galaxies

L.Spitzer: Physical Processes in the Interstellar Medium

W. Duley and D.A. Williams: Interstellar Chemistry

J. Dyson and D.A. Williams: The Physics of the Interstellar Medium

R. Kippenhahn and A. Weigert: Stellar structure and evolution

E. Bohm-Vitense: Introduction to stellar astrophysics (vol. 1, 2, 3)

G. Collins: The fundamentals of stellar astrophysics