

Third Edition

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HANDBOOK OF OPTICS

Volume V

*Atmospheric Optics, Modulators, Fiber Optics,
X-Ray and Neutron Optics*



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HANDBOOK OF OPTICS

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COVER ILLUSTRATIONS

Boadband supercontinuum. Generated in a photonic crystal fiber using a mode-locked Ti:Sapphire laser as pump source. The spectrum is much broader than seen in the photograph, extending from 400 nm to beyond 2 μm . (*Photo courtesy of the Optoelectronics Group, University of Bath.*)

Supernova remnant. A Chandra X-Ray Space Telescope image of the supernova remnant G292.0+1.8. The colors in the image encode the X-ray energies emitted by the supernova remnant; the center of G292.0+1.8 contains a region of high energy X-ray emission from the magnetized bubble of high-energy particles that surrounds the pulsar, a rapidly rotating neutron star that remained behind after the original, massive star exploded. (*This image is from NASA/CXC/Penn State/S.Park et al. and more detailed information can be found on the Chandra website: <http://chandra.harvard.edu/photo/2007/g292/>.*)

Crab Nebula. A Chandra X-Ray Space Telescope image of the Crab Nebula—the remains of a nearby supernova explosion first seen on Earth in 1054 AD. At the center of the bright nebula is a rapidly spinning neutron star, or pulsar, that emits pulses of radiation 30 times a second. (*This image is from NASA/CXC/ASU/J.Hester et al. and more detailed information can be found on the Chandra website: <http://chandra.harvard.edu/photo/2002/0052/>.*)

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