



Infrared Technology Fundamentals, Second Edition, (Optical Science and Engineering)

By Schlessinger

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This work provides a basic understanding of the physical background and engineering considerations required for the design of IR systems, examining all components and combining them into examples of current surveillance systems. This second edition presents: new coverage of state-of-the-art optical systems, including lightweight mirrors and adaptive optics; planar-hybrid and Z-technology focal planes; the design of a ground-based IR astronomical telescope and the performance equations of laser-radar systems; and more.

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" . . The author provides a great deal of material derived from his extensive experience in designing and simulating infrared systems. Much of this material is not available elsewhere in book form. . . The treatment of hardware design tradeoffs is excellent. . . The book also provides unusual depth on hardware and algorithms for detection and track estimation." ---Optics & Photonics News . " . . a valuable overview. . . useful to both those working in the field or attempting to design systems." ---Indian Journal of Physics

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