

# Optics Glossary

**Abbe Number:** The constant of an optical medium that describes the ratio of its refractivity to its dispersion.

Specifically,  $V_d = (n_d - 1) / (n_F - n_C)$ , where  $n$  is the index of refraction at the Fraunhofer d, F, and C lines, respectively.

**Aberration:** An optical defect resulting from design or fabrication error that prevents the lens from achieving precise focus. The primary aberrations are spherical, coma, astigmatism, field curvature, distortion, and chromatic aberration.

**Achromatic Lens:** Lens in which chromatic aberration has been corrected at a minimum of two wavelengths.

**Airy Disc:** A pattern of illumination caused by diffraction at the edge of a circular aperture, consisting of a central core of light surrounded by concentric rings of gradually decreasing intensity.

**Anamorphic:** Distorted, as in an optical system with different magnification levels or with focal lengths perpendicular to the optical axis.

**Angle of Incidence:** The angle formed by a ray of light striking a surface and the normal to that surface.

**Antireflection (AR) Coating:** A thin layer of material that, when applied to a lens or window, increases its transmittance by reduction of its reflectance. AR coatings may be multilayer or single layer coatings.

**Aperture:** An opening through which light may pass. The clear aperture is that area in an optical system limiting the bundle of light able to pass through the system.

**Aspheric:** Not spherical. To reduce spherical aberration, a lens may be altered slightly so that one or more surfaces are aspheric.

**Astigmatism:** An aberration in a lens in which the tangential and sagittal (horizontal and vertical) lines are focused at two different points along the optical axis.

**Back Focal Length (BFL):** The distance between the last surface of a lens to its image focal plane.

**Bandpass:** The range of wavelengths that passes through a filter or other optical component.

**Bandwidth:** Range of wavelengths over which the specified transmission or reflection occurs.

**Beam Deviation:** See Deviation.

**Beamsplitter:** An optical device that divides an incident beam into at least two distinct beams.

**Bi-Concave:** Having two outer surfaces that curve inward.

**Bi-Convex:** Having two outer surfaces that curve outward.

**Birefringence:** The change in refractive index with the polarization of light. A birefringent crystal, such as calcite or quartz, will divide an unpolarized beam into two beams (ordinary and extraordinary) having opposite polarization.

**Blocking:** Refers to filter transmittance outside the bandpass region. It is the rejection of out-of-band wavelengths by a filter.

**Blur Circle:** The image of a point-source object formed by an optical system on its focal surface. The precision level of the lens and its state of focus determine the size of the blur.

**Borosilicate Glass:** An optical glass containing boric oxide, along with silica and other ingredients. BK 7 and Pyrex® are examples of borosilicate glasses.

**Brewster's Angle:** For light incident on a plane boundary between two materials having different index of refraction, that angle of incidence at which the reflectance is zero for light that has its electrical field vector in the plane defined by the direction of propagation and the normal to the surface. For propagation from material 1 to material 2, Brewster's angle is given as  $\tan^{-1}(n_2/n_1)$ .

**Broadband Coating:** A multilayer coating with specified reflection or transmission over a broad spectral band. Newport's AR 14 is a broadband AR coating, while Newport BD-1 is broadband mirror coating.

**Cavity:** A periodic structure of thin films comprised of two quarter-wave stack reflectors separated by a dielectric spacer. Cavities are the building blocks of bandpass filters.

**Center Wavelength:** The center of the wavelength band of a coating.

**Centration:** The deviation between the optical axis and the mechanical axis of a lens. Centration is specified in terms of the deflection of a beam directed along the mechanical axis of the lens.

**Chromatic Aberration:** An optical defect in a lens resulting in different wavelengths of light focusing at different distances from the lens. Corrected by achromatic lenses.

**Circle of Least Confusion:** The smallest cross-section of a focused beam of light at the point of best focus for the image.

**Clear Aperture:** The area of an optical component that controls the amount of light incident on a given surface. In Newport lenses and mirrors, the clear aperture gives the diameter over which specifications are guaranteed.

**Coefficient of Thermal Expansion:** A material property defined as the fractional change in length per original length (or fractional change in volume) with a change in temperature.

**Collimated Beam:** A beam of light in which all of the rays are parallel to each other.

**Coma:** An aberration that occurs in a lens when rays emanating from points not on the optical axis do not converge, causing the image of a point to appear comet-shaped.

**Cone Angle:** The central angle of a cone of rays converging to or diverging from a point. See Numerical Aperture.

# Glossary Of Optical Terminology

**Anonymous**



## **Glossary Of Optical Terminology:**

The Glossary of Optical Terminology Thomas K. Farrell, 1986      **The Optical Dictionary** Anonymous, 2023-07-18 This reference book provides definitions and explanations of technical terms related to optics and ophthalmology. It is designed to be a useful resource for professionals in these fields as well as students and anyone seeking to improve their understanding of optical terminology. The book also includes translations of selected French and German terms. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America and possibly other nations. Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work. Scholars believe and we concur that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant.

**The Optical Dictionary** Charles Hyatt-Woolf, 1904      **Fiber Optics Standard Dictionary** Martin Weik, 2012-12-06

Fiber Optics Vocabulary Development In 1979 the National Communications System published Technical Information Bulletin TB 79-1 Vocabulary for Fiber Optics and Lightwave Communications written by this author. Based on a draft prepared by this author the National Communications System published Federal Standard FED STD 1037 Glossary of Telecommunications Terms in 1980 with no fiber optics terms. In 1981 the first edition of this dictionary was published under the title Fiber Optics and Lightwave Communications Standard Dictionary. In 1982 the then National Bureau of Standards, now the National Institute of Standards and Technology, published NBS Handbook 140 Optical Waveguide Communications Glossary, which was also published by the General Services Administration as PB82-166257 under the same title. Also in 1982 Dynamic Systems Inc. Fiber Optic Sensor Technology Handbook co-authored and edited by this author with an extensive Fiber Optic Sensors Glossary. In 1989 the handbook was republished by Optical Technologies Inc. It contained the same glossary. In 1984 the Institute of Electrical and Electronic Engineers published IEEE Standard 812-1984 Definitions of Terms Relating to Fiber Optics. In 1986 with the assistance of this author the National Communications System published FED STD 1037A Glossary of Telecommunications Terms with a few fiber optics terms. In 1988 the Electronics Industries Association issued EIA 440A Fiber Optic Terminology based primarily on PB82-166257. The International Electrotechnical Commission then published IEC 731 Optical Communications Terms and Definitions. In 1989 the second edition of this dictionary was published.

Glossary of Optical Terms Bausch & Lomb, Inc., 1974\*      *A Handbook of Optics* N.B. Singh, A Handbook of Optics is a comprehensive guide designed for absolute beginners offering a gentle introduction to the fascinating world of optics. From the basic principles of light propagation to the intricate workings of optical communication systems, this book covers a wide range of topics in a clear and accessible manner. Packed with practical examples, illustrations, and step-by-step explanations, it serves as an invaluable resource for anyone seeking to understand the fundamental concepts

of optics and their real world applications Whether you re a curious learner embarking on a journey of discovery or an educator looking for a concise yet informative reference this handbook provides the perfect starting point for exploring the wonders of optics

Concise Medical Dictionary For Health Care Practitioners(a) Dhirendra Verma,2005      **Thesaurus of Pulp and Paper Terminology** Institute of Paper Science and Technology,1991      Fiber Optics Standard Dictionary Martin H. Weik,2013-04-17

The first edition of this dictionary was written during the years preceding 1980 No fiber optics glossary had been published by any recognized standards body No other dictionaries in fiber optics had been published A significant list of fiber optics terms and definitions NBS Handbook 140 Optical Waveguide Communications Glossary was issued in 1982 by the National Bureau of Standards now the National Institute of Standards and Technology Since then several publications by standards bodies contained fiber optics terms and definitions In 1984 the Institute of Electrical and Electronic Engineers published IEEE Standard 812 1984 Definitions of Terms Relating to Fiber Optics In 1986 the National Communication System published Federal Standard FED STD I037A Glossary of Telecommunication Terms containing about 100 fiber optics terms and definitions In 1988 the Electronic Industries Association issued EIA 440A Fiber Optic Terminology All of these works were based on NBS Handbook 140 compiled 10 years earlier Currently the International Electrotechnical Commission is preparing IEC Draft 731 Optical Communications Terms and Definitions Work in fiber optics terminology is being contemplated in the International Organization for Standardization and the International Telecommunications Union None of these works constitutes a comprehensive coverage of the field of fiber optics Each was prepared by professional people representing specific interest groups Each work was aimed at specific audiences research activities development activities manufacturers scientists engineers and so on Their content is devoted primarily to fundamental scientific and technical principles and theory rather than state of the art and advanced technology

**Standardization** ,1951      **Scientific and Technical Aerospace Reports** ,1992      *Aviationary - Aviation Dictionary of Terms & Abbreviations - Havacılık Terimleri ve Kısaltmalar Sözlüğü* Hidayet Tuncay,2014-01-01

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glossary havac l k sigorta terminolojisi aviation communications glossary havac l k haberle me terimleri air traffic management terms hava trafik y netim terimleri aerospace terminology uzay terminolojisi glossary of flying terms genel u u terminolojisi S zl n haz rl k a amas nda 200 e yak n kayna a ba vurulmu havac l k alan n n t m yan yak n ve alt birimlerinde yer alan terim ifade k saltma ve deyimler titizlikle incelenmi ve detayl bir eklide ele al nm t r Yakla k 10 000 e yak n ifade terim deyim ve k saltma yer almakta olup bir o u a klamalarla verilmi tir **Handbook & Buyers Guide , The Optical Journal** ,1900 **Optics: A Formula Handbook** N.B. Singh, Optics A Formula Handbook is a concise and invaluable guide that distills the principles of optics into essential formulas for quick reference Tailored for students researchers and professionals in physics and engineering this handbook covers key equations related to light lenses mirrors and various optical phenomena With clarity and precision the book facilitates a deeper understanding of optical principles making it an indispensable resource for those working with light and its applications in fields such as imaging microscopy and telecommunications Whether exploring the basics or delving into advanced optical concepts this handbook provides a handy and comprehensive tool for navigating the complexities of optics **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December An Index of U.S. Voluntary Engineering Standards William J. Slattery,1971 **An Index of U.S. Voluntary Engineering Standards** United States. National Bureau of Standards,1971 **The Optician's Manual** ,1902 **The Optical Industry & Systems Directory** ,1972

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