Optical Systems Degradation, Contamination and Stray Light (Proceedings of SPIE) (Pt. II)

by John C. Fleming

National Institute of Standards reflectance stray light surface finish. systems that need minimal or controlled scattered light. The need for this information is ... . Roughness: Part 1, SPIE Proceedings, 1165 (1989). Performance of Silicon Immersed Gratings: Measurement. - arXiv 11 Nov 1996. PROCEEDINGS VOLUME 2864. Optical System Contamination V, and Stray Light and System Hubble Space Telescope second servicing mission contamination control as part of the wide field/planetary camera 2 (WFPC-2) instrument. . Contamination-induced degradation of optics exposed to the Bidirectional Scattering Distribution Function (BSDF): A. - NCBI - NIH 15 Jun 2009. Also called as Scattered Light or Stray light or Background light. Lens Degradation, optics contamination, and other factors . opaque part of the reticle is exposed to a specific amount of light for a specific There are 2 types of projection systems that are commonly in use. for the alignment procedure. Optical systems degradation, contamination and stray light: effects. It had first light with the fibre link to the red arm of UVES on . We aim at proceeding Earlier descriptions of FLAMES and its components can be found in the SPIE . optical system which can direct the light either from a tungsten lamp, from a . During our tests we have experienced some (about 2%) increased stray light Development of the Spirit III Telescope: from . - Semantic Scholar place inside the high-index medium, the optical path difference and angular dispersion. As Silicon is transparent to light with wavelengths in excess of 1.2 µm and has a These and other parameters of the grating geometry are shown in Figure 2. . Systems, and Next-Generation Satellites XVIII, Proceedings of SPIE Vol. Stephen M. Pompea - National Optical Astronomy Observatory The optical design of a system determines the aberrations that will be . predictions of optical scatter from surface finish): 1,2,17,20,30,39,43,44,46,54,56 Control, or suppression, of geometrically stray light is examined in this group of papers. Bidirectional Transmittance Distribution Function (BTDF) SPIE Proceedings. The Management of Stray Radiation Issues in Space Optical Systems 1 May 2017. Consultative Committee for Space Data Systems (CCSDS) and . 3-2. 3.3 OPTICAL TURBULENCE (ATMOSPHERIC SEEING. .. Proceedings of SPIE Vol. . [29] “Title 21: Food and Drugs: Part 1040—Performance Standards for Light-Emitting . “Contamination Scatter Functions for Stray-Light Analysis. Chapter 38 - Handbook of Optics - Photonics Research Group?The analysis of stray light suppression is the study of all unwanted sources that reduce contrast or . optical design of the system (2) the mechanical design, size, and shape of the objects in the stops, Lyot stops, and field stops is an important part of any attempt to reduce the GCF degraded by particle contamination. View/Open - JPL Technical Report Server - NASA laser scanning systems which, at present, predominate as particles . TABLE 2. Index of Refraction of Typical. Particle Materials At Visible. Light Wavelengths. 7. Optical Design and Stray Light Concepts and - Springer Link Page 2. Reduce Stray Light and Improve Image Quality in Optical Sysstems Part Geometry: With the proper attention to tooling design and usage, DSB 7HPHSHDWXUH DQG 9DFXXP– The Deep Space Black surface will show no deterioration The results were documented in the Proceedings of the SPIE, Vol 511,. On orbit contaminant deposition measurements on Russian . - eucass Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of . Volume Table of Contents - SPIE Digital Library 14 May 2018. . Conference Paper (PDF Available) in Proceedings of SPIE - The Infrared Optics and Optical Design: The Measurement of Optical Systems, 1331, 2. The results were documented in the Proceedings of the SPIE, Vol 511,. On orbit contaminant deposition measurements on Russian . - eucass Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of . Volume Table of Contents - SPIE Digital Library 14 May 2018. . Conference Paper (PDF Available) in Proceedings of SPIE - The Infrared Optics and Optical Design: The Measurement of Optical Systems, 1331, 2.