
X Ray Optics High Energy Resolution Applications 1st Edition

x-ray optics - icdd - x-ray optics eberhard spiller lawrence livermore national laboratory livermore, ca 94550 spiller@llnl introduction we summarize recent progress in x-ray optics, emphasizing topics not covered elsewhere at the **applications and measurements of polycapillary x-ray optics** - applications and measurements of polycapillary x-ray optics1 c. a. macdonald center for x-ray optics, university at albany, albany, new york 12222 received december 22, 1993; revised august 15, 1994 the recent invention of kumakhov polycapillary x-ray and neutron optics has expanded the ways x-ray beams can be controlled. **reflective coating for lightweight x-ray optics - nasa** - ray multi-layer coating, such as those used for the optics in nustar and the hard x-ray telescopes on astro-h, are needed. even though, in principle, a mirror substrate can sustain a certain level of distortion, if subsequent alignment/mounting **adjustable x-ray optics** - **msfc x-ray astronomy** - adjustable x-ray optics - quick intro i deposited piezo actuator layer outer electrode segment inner actuator electrode glass mirror substrate x-ray re:lective coating (e.g., ir) • continuous, thin film (1.5 μm) piezo actuators with independently addressable electrodes on **x-ray optics at msfc** - x-ray astronomy group x-ray optics at msfc • msfc has been developing integrated full-shell x-ray optics for ~ 20 years • funded initially through roses/apra program • fabrication approach: electroformed nickel replication • optics have been built for satellite, rocket and balloon-borne missions and for various spin-off applications **how do we form an x-ray image? - harvard university** - how do we form an x-ray image? b1509-58 1e0658 cen a. why do we use x-ray optics? 1. to achieve the best, 2-dimensional angular resolution • distinguish nearby sources, different regions of the same source • use morphology to apply intuition and choose models. 3c 273 10" = 29kpc **x-ray optics: past, present, and future** - x-ray telescopes in 1960 ricardo giacconi and bruno rossi first suggested that x-ray imaging optics be used for space based x-ray telescopes for solar and cosmic x-rays giacconi and rossi also the first to suggest nesting a set of confocal telescopes to substantially increase the collecting area of the telescope **x-ray optics for bes light source facilities** - a workshop, x-ray optics for bes light source facilities, which was held march 27-29, 2013, near washington, d.c. the charge given to the co-chairs of this workshop is given below. the department of energy (doe), office of basic energy sciences (bes) is sponsoring this workshop **multilayer laue lenses as high-resolution x-ray optics** - keywords: x-ray optics, high resolution optics, diffractive optics, zone plates, multilayers, volume holograms. abstract using fresnel zone plates, a spatial resolution between 20 nm for soft x-rays and 70 nm for hard x-rays has been achieved. improvement of the spatial resolution without loss of efficiency is difficult and incremental due **polycapillary x-ray optics for microdiffraction** - 1. introduction to polycapillary optics kumakhov polycapillary optics are arrays of hollow glass tubes used to collect, focus and redirect x-ray and neutron beams (arkad'ev et al., 1989). these optics guide x-rays by total reflection (jentsch, 1929; hirsch & keller, 1951) from the capillary surfaces at very small **hard x-ray optics: from heft to nustar** - satellite instrument to employ focusing optics in the 6 to 80 kev hard x-ray band. since the heft design and production process has been described in detail elsewhere 2 ,3 4, we will begin in section 2 by giving an overview of the nustar optics design and production process, with particular attention given where the ...

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