
X Ray Optics High Energy Resolution Applications

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. **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 **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 reflective coating (e.g., ir) • continuous, thin film (1.5 μm) piezo actuators with independently addressable electrodes on **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 **an optical revolution for x-ray imaging** - originally designed for implementation in x-ray microscopes, the optics were ultimately realized in a more accessible telescope design for applications in astronomy. however, recent advances research highlights s&tr april 2019 weighing nearly 4 kilograms, the first portable digital camera **measurements of polycapillary x-ray optics - albany** - measurements of polycapillary x-ray optics j. b. ullrich, v. kovantsev,a) and c. a. macdonald b) center for x-ray optics, university at albany, suny; albany, new york 12222 **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 **silicon pore x-ray optics - sci2a** - dedicated x-ray facilities in place x-ray tested mounted optics -performed integration into petal of several modules Æ exhibit - ait procedure successful have wedged plates and built focusing xou performance of the optics continuously improving -mainly due to cleanliness improvements - 17" hew absolute - 8" hew with near term ... **curved crystal assemblies for x-ray focusing** - divergent x-rays. these optics are highly curved, with sags measured in mm. x-ray photoelectron spectroscopy, xps in this application, an electron beam is focussed onto a target to create x-rays, located at one of the foci of the ellipsoid. the x-ray monochromator images the x-ray source onto a sample-under-test **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 and imaging - cvut** - x-ray optics, detectors, sources • institute of opto-electronics warsaw, poland • others (esa, nasa, industry, academic institutions ...) • x-ray systems r&d • laboratory and space optics • plasma sources • detection techniques • x-ray applications • capillary discharge evu source equipped with focusing optics • x-ray ... **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 ... **overview of polycapillary x-ray optics - cambridge** - overview of polycapillary x-ray optics paul j. schields,a) david m. gibson, walter m. gibson, ning gao, huapeng huang, and igor yu. ponomarev x-ray optical systems, inc., 30 corporate circle, albany, new york 12203

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