Silicon pore optics for high-energy optical systems

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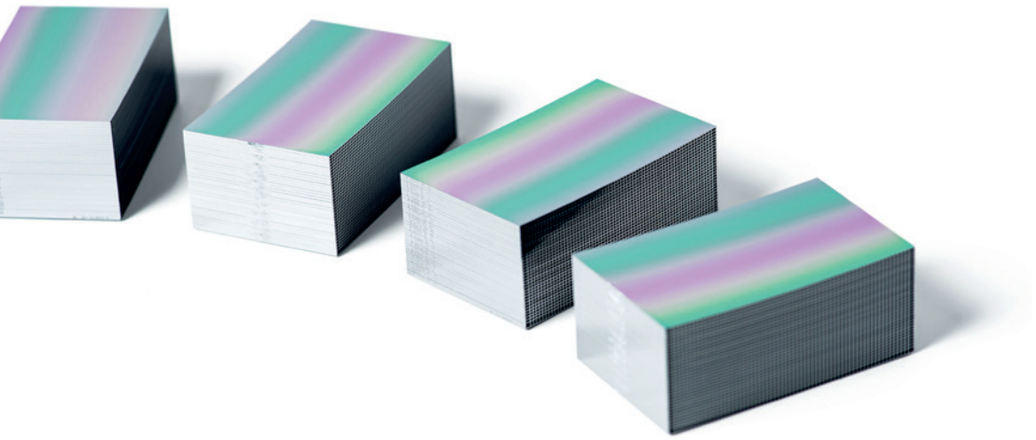
This thesis examines silicon pore optics (SPO), a technology that exploits silicon wafers from the semiconductor industry to create extremely high quality X-ray optics, by studying its manufacturing process, applications, and prospects. SPO technology has become very mature thanks to the continuous development efforts to prepare for the industrial production of Athena, the largest space-borne X-ray telescope yet to be launched. In effect, SPO is also a versatile technology that can be further developed for a wide range of applications, including radiation therapy.



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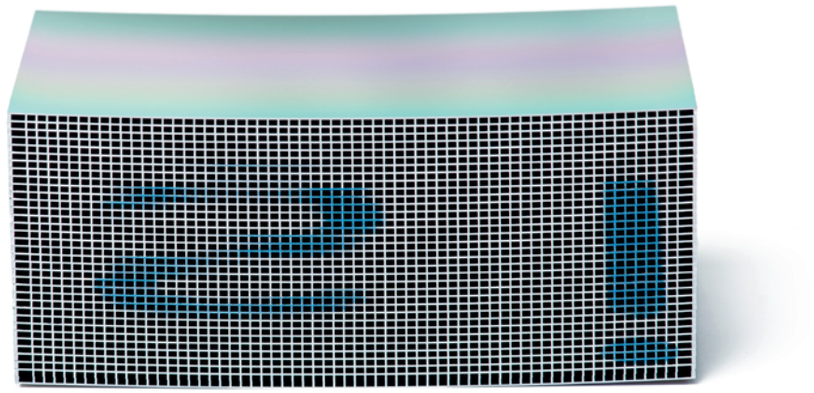

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