

Advanced UVOIR Mirror Technology Development for Very Large Space Telescopes

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Advanced Uvoir Mirror Technology Development for Very Large Space Telescopes (Paperback)

By Philip H Stahl

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****** Print on Demand ******. Objective of this work is to define and initiate a long-term program to
mature six inter-linked critical technologies for future UVOIR space telescope mirrors to TRL6 by
2018 so that a viable flight mission can be proposed to the 2020 Decadal Review. (1) Large-Aperture,
Low Areal Density, High Stiffness Mirrors: 4 to 8 m monolithic 8 to 16 m segmented primary mirrors
require larger, thicker, stiffer substrates. (2) Support System: Large-aperture mirrors require large
support systems to ensure that they survive launch and deploy on orbit in a stress-free and
undistorted shape. (3) Mid/High Spatial Frequency Figure Error: A very smooth mirror is critical for
producing a high-quality point spread function (PSF) for high-contrast imaging. (4) Segment Edges:
Edges impact PSF for high-contrast imaging applications, contributes to stray light noise, and
affects the total collecting aperture. (5) Segment-to-Segment Gap Phasing: Segment phasing is
critical for producing a high-quality temporally stable PSF. (6) Integrated Model Validation: Onorbit performance is determined by mechanical and thermal stability. Future systems require
validated performance models. We are pursuing multiple design paths give the science community
the option to...



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