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Title: PMN based Deformable Mirrors, A Manufacturer's Perspective

Abstract:

Deformable Mirror (DM) technology based upon PMN actuators has been instrumental in optical system design, especially in the area of Astronomical applications. A basic review of the design parameters and performance metrics a manufacturer utilizes to transform user requirements into good DM designs that are functional and reliable will be presented. Emphasis on actuator stroke range, inter-actuator stroke, correctability, quilting, thermal management, material selection, manufacturability and process control are detailed. Successful operational PMN based DM designs will be illustrated.