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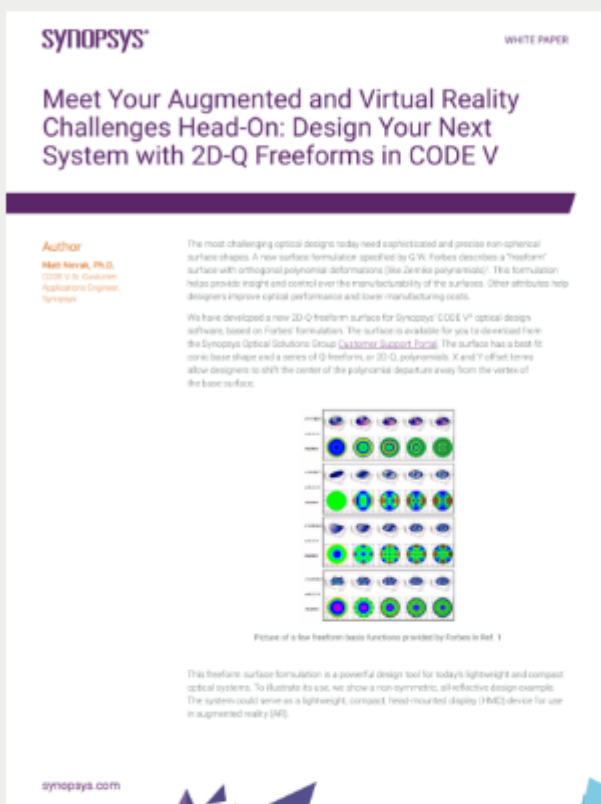


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## Meet Your Augmented and Virtual Reality Challenges Head-On: Design Your Next System with 2D-Q Freeforms in CODE V

The most challenging optical designs today need precise non-spherical surface shapes. A new surface formulation specified by G.W. Forbes describes a "freeform" surface with orthogonal polynomial deformations. Synopsys has developed a new 2D-Q freeform surface for CODE V® optical design software, based on Forbes' formulation, which is a powerful design tool for today's lightweight and compact optical systems. To illustrate its use, we show a non-symmetric, all-reflective design example that could serve as a lightweight, compact, head-mounted display (HMD) device for use in augmented reality (AR).

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