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Design Your AR/VR System with 2D-Q Freeforms in CODE V

The most challenging optical designs today need precise non-spherical surface shapes. A surface formulation specified by G.W. Forbes describes a “freeform” surface with orthogonal polynomial deformations. Synopsys has developed a 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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