

Modeling of Microlens Arrays with Different Lens Shapes

Abstract



Microlens arrays are found useful in many applications, such as imaging, wavefront sensing, light homogenizing, and so on. Due to different fabrication techniques / processes, the microlenses may appear in different shapes. In this example, microlens array with two typical lens shapes – square and round – are modeled. Because of the different apertures shapes, the focal spots are also different due to diffraction. The change of the focal spots distribution with respect to the imposed aberration in the input field is demonstrated.

Modeling Task





36

18

(color saturation at 1/3 maximum)







title	Modeling of Microlens Array with Different Lens Shapes
version	1.0
VL version used for simulations	7.3.1.5
category	Application Use Case