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The system architecture typology for realizing the amplitude-only Fourier filter (AO-FF) layer for performing filtering is synergistically realized in optics [21]; a coherent optical image processor is based on a {4}f system, in which

there are four lens focal distances f separating the object from the image plane, intercalated by two Fourier transforming lenses [Fig. 1 (a)].

OSA | Massively parallel amplitude-only Fourier neural network

tributions to optics education (1995). He is a Fellow of the OSA, the SPIE, and the IEEE. In 1987 he was elected to the National Academy of Engineering. In addition to Introduction to Fourier Optics, Dr. Goodman is the author of Statistical Optics (J. Wiley & Sons, 1985) and the editor of International Trends in Optics (Academic Press, 1991).

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Fourier analysis is a ubiquitous tool that has found application to diverse areas of physics and engineering. This book deals with its applications in optics, and in particular with its applications to diffraction, imaging, optical data processing, holography and optical communications.

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