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Phase-space methods can be traced back to early contributions in classical geometrical optics, yet it is only recently that scientists and engineers began to systematically explore the use of phase-space representations for analyzing and synthesizing optical signals. This seminal collection of 70 papers dated from 1932 through 2004 describes the spatial properties of optical signals in terms of phase-space in the classical optical fields, and sketches some of the many interesting applications of phase-space methods. The volume begins with foundational papers, and continues with phase-space tools for optics, analysis and design of optical systems and devices, partially coherent signals and systems, the discrete Wigner transform, the optical display of phase space, optical metrology and signal recovery, the phase-space representation of optical signals and systems, and time-domain applications.