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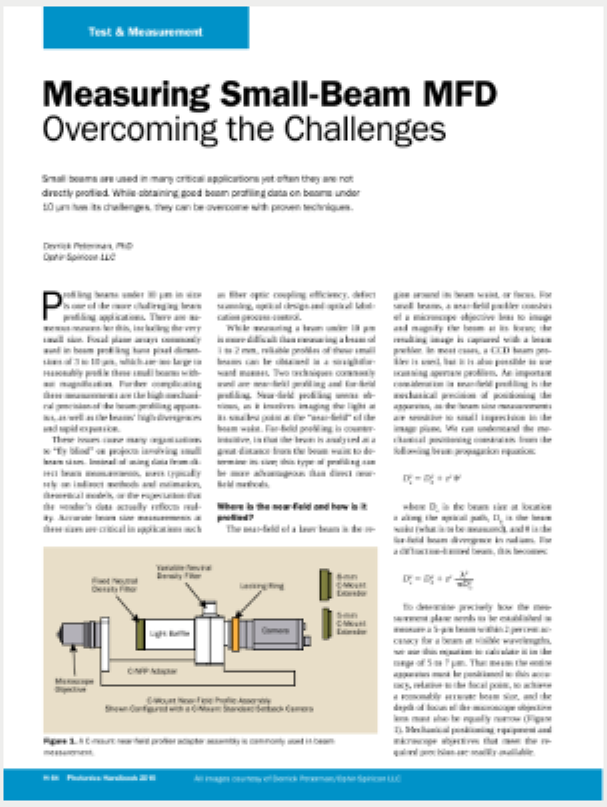
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Measuring Small-Beam MFD
Overcoming the Challenges

Small beams are used in many critical applications yet often they are not directly profiled. While obtaining good beam profiling data on beams under 10 µm has its challenges, they can be overcome with proven techniques.

Derrick Peterman, PhD
Ophir-Spiricon LLC

Measuring Small-Beam MFD: Overcoming the Challenges

Small beams are used in many critical applications, such as such as fiber optic coupling efficiency, defect scanning, optical design, and optical fabrication process control. Yet often, they are not directly profiled because determining the size of the beam emerging from a waveguide or fiber — often referred to as the mode field diameter (MFD) — is difficult. While obtaining good beam profiling data on beams under 10 µm has its challenges, they can be overcome with near-field profiling and far-field profiling.

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