#### 技术及应用

## 基于双共焦传感器的薄膜厚度测量技术

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研究了基于双共焦传感器的薄膜厚度测量技术,搭建实际系统对自支撑Au、Mo膜进行测量。结果 ▶ Supporting info 摘要 表明,该系统有效消除了薄膜翘曲、不完全展平的影响,测量精度达到干涉仪水平。

共焦 薄膜 厚度 测量

分类号

# Measurement of Thickness of Foils Based on Conjugate d Confocal Micro-Displacement Sensors

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**Abstract** The measurement of the thickness of foils is crucial to the studies on the equation o f state (EOS) based on laser driven shock waves. The new method by means of conjugated c onfocal micro-displacement sensors was studied. An instrument was set up, and some warpe d foils were measured with it. The results indicate that the curve of specimen surface is avoide d, and the precision is identical to the interfrometer.

**Key words** confocal foil thickness measurement

DOI

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