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Sommario/riassunto	"In August 2014, the Committee on Defense Materials Manufacturing and Infrastructure convened a workshop to discuss issues related to applying materials state awareness to condition-based maintenance and system life cycle management. The workshop was structured around three focal topics: (1) advances in metrology and experimental methods, (2) advances in physics-based models for assessment, and (3) advances in databases and diagnostic technologies. This report summarizes the discussions and presentations from this workshop.