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Sommario/riassunto	The latest information on methods for predicting and understanding fatigue failures in materials and structures; 17 peer-reviewed papers cover: metal matrix composite complexities; analysis methods for multiple failure mechanisms; cyclic and creep loading experimental approaches; thermo-mechanical fatigue in polymer matrix composites; non-destructive methods for detecting damage; damage mechanics; crack initiation and growth prediction techniques; microstructural effects on fatigue cracking behavior; and design method development and application for dealing with fatigue in components and structures; Invaluable for design engineers, researchers, materials engineers, and metallurgists.