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### Sommario/riassunto

The design of mechanical structures with predictable and improved durability cannot be achieved without a thorough understanding of the mechanisms of fatigue damage and more specifically the relationships between the microstructure of materials and their fatigue properties. Written by leading researchers in the field, this book, along with the complementary books *Fatigue of Materials and Structures: Fundamentals and Application to Damage and Design* (both also edited by Claude Bathias and Andre Pineau), provides an authoritative, comprehensive and unified treatment of the mechanics and mic

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