



# Titanium Alloys: An Atlas of Structures and Fracture Features

*Vydehi Arun Joshi*

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# Titanium Alloys: An Atlas of Structures and Fracture Features

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## Titanium Alloys: An Atlas of Structures and Fracture Features Vydehi Arun Joshi

Recognized for their superior strength, corrosion/oxidation resistance, and biocompatibility, titanium alloys are particularly intriguing to engineers, scientists, and metallurgists in aerospace, biomedical, and other industrial applications. **Titanium Alloys: An Atlas of Structures and Fracture Features** uses award-winning micrographs and fractographs to illustrate how alloy microstructures are affected by various thermomechanical treatments present in real world operating conditions.

This book is the first of its kind to compile microstructural and fracture features for titanium alloys and titanium aluminides as well as capture its fractographic features together with the conditions that produced failure. The author discusses the physical metallurgy of titanium alloys as a standard for observing microstructures and their failures. Then she combines the skillful use of scanning electron microscopy in fracture analysis and an eye for detail to deliver a visual presentation of fracture surfaces generated under different loading conditions, including ductile, fatigue, intergranular, and cleavage fractures. Especially helpful to those engaged in failure analysis of titanium components, the book includes a case study applying key criteria to the service failure of a defective titanium alloy component.

Supported by additional background data such as types, compositions, phase transformations, microstructures, and typical fractographs, **Titanium Alloys: An Atlas of Structures and Fracture Features** offers exceptional insight into the structure-property correlations of titanium alloys.



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