Protective coatings for turbine blades

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Abstrak

Collects the results of the author's research on developing diffusion and overlay protective coatings for aircraft engine turbine blades. The book describes technological processes for diffusion and overlay coatings deposition, the composition of the coatings, the structure of the coatings after the.... Contents :

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- Preface
- Chapter 1: Introduction
- Chapter 2: Choosing optimum coatings for modern aircraft engine turbine blades
- Chapter 3: Technological processes for deposition of protective coatings to turbine blades
- Chapter 4: Phase composition and structure of coatings on superalloys
- Chapter 5: Phase and structural changes in coatings during high-temperature tests
- Chapter 6: Turbine blade coating protective properties
- Chapter 7: The effect of protective coatings on the mechanical properties of superalloys
- Chapter 8: Electron beam thermal barrier coatings
- Chapter 9: Some principles of strength designing for turbine-blade protective coatings
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