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MACHINING OPERATIONS CONSEQUENCES OF MACHINING RESIDUAL STRESSES; REFERENCES; CHAPTER 3. MECHANICAL PRODUCTION OF SELF STRESSES; ABSTRACT; OVERLOADING; AUTOFRETTAGE - EXPANDING TUBES AND HOLES; SHOT PEENING; REFERENCES; CHAPTER 4. RESIDUAL STRESSES CAUSED BY THERMAL AND THERMOCHEMICAL SURFACE TREATMENTS; ABSTRACT; KEYWORDS; INTRODUCTION; SUMMARY; REFERENCES; CHAPTER 5. RESIDUAL STRESSES IN COMPOSITE MATERIALS: AN OVERVIEW OF MEASUREMENT METHODS USED; ABSTRACT; NOMENCLATURE; INTRODUCTION; ORIGIN OF RESIDUAL STRESSES AT THE INTERFACES X-RAY AND NEUTRON DIFFRACTION OPTICAL METHOD (RAMAN SPECTROSCOPY); ULTRASONIC METHODS; MAGNETIC METHODS; SUMMARY; ACKNOWLEDGEMENT; REFERENCES; CHAPTER 6. RESIDUAL STRESSES IN URANIUM AND URANIUM ALLOYS; ABSTRACT; INTRODUCTION; GENERATION OF RESIDUAL STRESSES; MEASUREMENT AND PREDICTION OF RESIDUAL STRESSES; RELIEVING OF RESIDUAL STRESSES; CONSEQUENCES OF RESIDUAL STRESSES; SUMMARY; REFERENCES; CHAPTER 7. RESIDUAL STRESSES IN CVD AND PVD REFRACTORY COATINGS; ABSTRACT; INTRODUCTION; THE COATING MATERIALS; EXPERIMENTAL TECHNIQUE; INSTRUMENTATION; EXPERIMENTAL RESULTS; DISCUSSION; CONCLUSIONS REFERENCES PART II: MEASUREMENT AND PREDICTION OF RESIDUAL STRESSES; CHAPTER 8. THE TREPAN OR RING CORE METHOD, CENTRE-HOLE METHOD, SACH'S METHOD, BLIND HOLE METHODS, DEEP HOLE TECHNIQUE; ABSTRACT; NOMENCLATURE; INTRODUCTION; TREPAN OR RING-CORE METHOD; THEORETICAL CONSIDERATIONS; HOLE DRILLING; EVALUATION OF TECHNIQUE; SECTIONING; DEEP HOLE METHOD; CONCLUSIONS; ACKNOWLEDGEMENT; REFERENCES; CHAPTER 9. MEASUREMENT OF RESIDUAL STRESS DISTRIBUTION BY THE INCREMENTAL HOLE-DRILLING METHOD; INDUSTRIAL SUMMARY; NOMENCLATURE; INTRODUCTION; "TRADITIONAL" HOLE DRILLING METHOD CALIBRATION OF THE HOLE-DRILLING METHOD

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Sommario/riassunto

Residual Stresses presents a collection of articles that provides information regarding the use of surface treatment systems. It discusses the developments in the technology and application of surface treatment. It addresses the influence of minor stresses on the performance of materials. Some of the topics covered in the book are the introduction to self-equilibrating stresses existing in materials, the stresses that form as a consequence of welding, the stresses made by machining, and the mechanical generation of self-stresses. The analysis of the stresses caused by thermal and thermochemical

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