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Nota di contenuto

Frontmatter -- Contents -- Acknowledgments -- Introduction -- Maps -- Preface -- The Search for Franklin -- 1. Schwatka's Franklin Search Party, 1878,1879, and 1880 -- 2. Sojourn in Hudson Bay from August 1878 to i April 1879 as an Acclimatization Period -- 3. The Trek to the Arctic Ocean Watershed, i April-4 May 1879 -- 4. From the Area of the Back River to King William's Land, 5 May-i2 June 1879 -- 5. From Cape Herschel to Cape Felix, 12 }une~3 July 1879 -- 6. The Main Search and Its Results 6 July-6 August 1879 -- 7. The Divided Search, 6 August to the End of September 1879 -- 8. In Permanent Camp, October 1879 -- 9. From King William's Land to the Dangerous Rapids on the Great Fish River, i November-i2 December 1879 -- 10. On the Back River, 12-31 December 1879 -- 11. The Overland March from 31 December 1879 until 27 February 1880 -- 12. The Final Stretch to Marble Island, 28 February-23 March 1880 -- 13. The Last Months in Hudson Bay, April-August 1880 -- 14. The limit of the American North -- Postscript -- Afterword -- Notes -- References -- Index

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In May 1845 Sir John Franklin sailed westward from England in search of the Northwest Passage and was never seen again. Some thirty-five years later, Heinrich Klutschak of Prague, artist and surveyor on a small expedition led by Lieutenant Frederick Schwatka of the 3rd US Cavalry Regiment, stumbled upon the grisly remains at Starvation Cove of the last survivors among Franklin's men. Overland to Starvation Cove is the first English translation of Klutschak's account. A significant contribution to Canadian exploration history, it is also an important anthropological document, providing some of the earliest reliable descriptions of the Aivilingmiut, the Utkuhikhalingmiut, and the Netsilingmiut. But above all, it is a fascinating story of arctic adventure.

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Nota di contenuto	Front Cover; Fracture Mechanics: Current Status, Future Prospects; Copyright Page; Table of Contents; INTRODUCTION; CHAPTER 1. MICROMECHANISMS OF FRACTURE IN STATIC AND CYCLIC FAILURE; Abstract; 1. Introduction; 2. Micromechanisms of Fracture; 3. Fracture Mechanism Maps; 4. Maps for Metals and Ceramics; 5. Mechanisms of Fracture and Order of Magnitude of K _c and G _c ; 6. Mechanisms of Fracture and Fatigue Crack Growth; 7. Summary; Acknowledgements; References; CHAPTER 2.THEORETICAL BACKGROUND TO ELASTIC FRACTURE MECHANICS; Summary; 1. Introduction; 2. Modes of Crack Surface Displacement 3. Stress Intensity Factors4. Effect of Yielding; 5. Measuring Fracture Toughness; 6. Fatigue Crack Growth; 7. Short Crack Limitations; 8. Combined Mode Behaviour; 9. Conclusions; Acknowledgements; Notation; APPENDIX; REFERENCES; CHAPTER 3.APPLICATION OF FRACTURE MECHANICS TO INDUSTRIAL PROBLEMS; Summary; 1) INTRODUCTION; 2) FATIGUE CRACKING IN A LARGE GENERATOR ROTOR; 3) CREEP CRACKING IN CrMoV PIPEWORK WELDS; 4) STRESS-CORROSION CRACKING IN STEAM TURBINE DISCS; 5) CONCLUDING REMARKS; 6) ACKNOWLEDGEMENT; 7) REFERENCES; CHAPTER 4.GREEN'S FUNCTIONS IN FRACTURE MECHANICS; Summary

1. Introduction 2. Basic principles of Green's functions; 3. Stress intensity factors as Green's functions; 4. Systematic use of Green's functions; 5. Available Green's functions; 6. Simple methods expressed as Green's functions; 7. Applications of Green's functions; 8. Conclusions; References; CHAPTER 5. VARIABLE AMPLITUDE FATIGUE OF WELDED STRUCTURES; INTRODUCTION; ANALYSIS OF VARIABLE AMPLITUDE FATIGUE; CRACK SHAPE PROBLEMS; K HISTORY; CONCLUSIONS; ACKNOWLEDGEMENTS; NOMENCLATURE; REFERENCES; CHAPTER 6. PROBABILISTIC FRACTURE MECHANICS; Abstract; 1. INTRODUCTION; 2. GENERAL PHYSICAL ASPECTS 3. GENERAL MATHEMATICAL FORMULATION 4. THE DISTRIBUTION FUNCTIONS; 5. APPLICATIONS; 6. CONCLUSIONS; References; CHAPTER 7. ELEVATED TEMPERATURE FRACTURE MECHANICS; SUMMARY; INTRODUCTION; CRACK CHARACTERISATION; CREEP CRACK GROWTH; FATIGUE AND CREEP-FATIGUE CRACK GROWTH; CONCLUDING REMARKS; REFERENCES; APPENDIX: CAVITY LINKAGE BY A CRACK DISPLACEMENT FIELD; CHAPTER 8. FRACTURE MECHANISMS IN FIBROUS COMPOSITES; Abstract; 1. Introduction; 2. Models of Fracture; 3. Statistical Analysis of Fracture; 4. Estimation of Fracture Energy; 5. Energies of Crack Initiation and Crack Propagation 6. Conclusions References; Acknowledgements; CHAPTER 9. FRACTURE CRITERIA IN ELASTIC AND ELASTIC/PLASTIC SOLIDS; SUMMARY; INTRODUCTION; PLASTIC ZONE SIZE CORRECTION; THE PLANE STRAIN/PLANE STRESS TRANSITION; INITIATION AND PROPAGATION; THE J INTEGRAL CRITERION FOR FRACTURE; THE CRACK OPENING DISPLACEMENT; SLOW CRACK GROWTH; THE PRESENT POSITION; REFERENCES

Sommario/riassunto

Fracture Mechanics