

# TABLE OF CONTENTS

	<u>PAGE</u>
EXPERIMENT 1 DEMONSTRATION OF X-RAY DIFFRACTION	1-3
EXPERIMENT 3 METALLOGRAPHIC OBSERVATIONS	7-16
EXPERIMENT 4 TESTING OF MATERIALS IN TENSION	19-25
EXPERIMENT 5 COLD WORK, RECOVERY, RECRYSTALLIZATION, & GRAIN GROWTH	29-35
EXPERIMENT 2 NOTCHED BAR IMPACT TESTING OF MATERIALS	39-43
EXPERIMENT 8 PRECIPITATION HARDENING IN 2024 ALUMINUM	49-51
EXPERIMENT 9 CORROSION OF METALS	59-63
EXPERIMENT 6 & 7 HEAT TREATMENT OF STEEL HARDENABILITY OF STEEL	71-77
SPECIAL PROJECT DATA	81