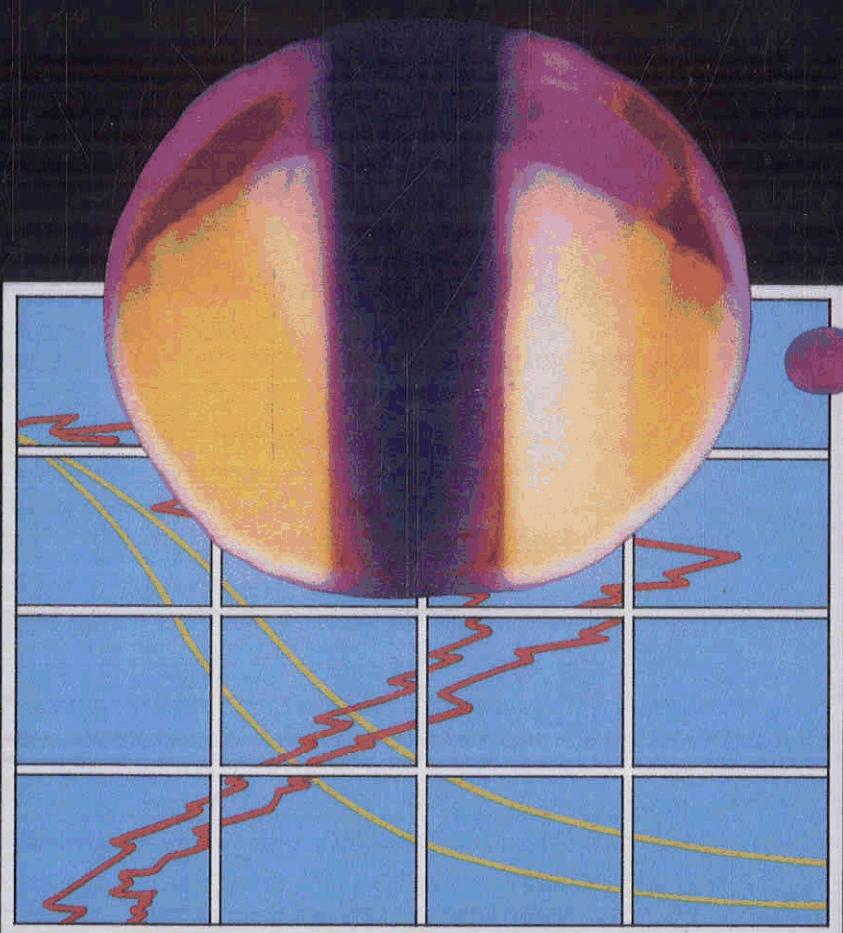


Handbook of

Quenchants and Quenching Technology



The Materials
Information Society

G.E. Totten, C.E. Bates and N.A. Clinton

TABLE OF CONTENTS

CHAPTER 1	
Introduction to Heat Treating of Steel	1
CHAPTER 2	
Measuring Hardenability and Quench Severity	35
CHAPTER 3	
Cooling Curve Analysis	69
CHAPTER 4	
Quenching Oils	129
CHAPTER 5	
Polymer Quenchants	161
CHAPTER 6	
Quench Bath Maintenance	191
CHAPTER 7	
Spray Quenching	239
CHAPTER 8	
Other Quenching Processes	291
CHAPTER 9	
Quench System Design	339
CHAPTER 10	
Impeller Agitation	413
CHAPTER 11	
Residual Stress, Distortion, and Cracking	441
INDEX	495