



# Principles of the Heat Treatment of Plain Carbon and Low Alloy Steel

By Charlie R. Brooks

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This invaluable resource book will help you immeasurably in determining which steel and heat treatment process will best meet your needs. It reviews current methods, both quantitative and correlative, in determining hardness or strength. You get a brief review of the concepts behind the common method of graphically depicting decomposition of austenite, the time-temperature transformation (TTT) diagram. It's followed by the ways of calculating hardenability from chemical composition and austenite grain size. Heat transfer during quenching is also discussed, including temperature-time curves for various shapes like bars and plates. Subsequent tempering is analyzed for you in great detail along with austenitizing, annealing, normalizing, martempering, austempering and intercritical heat treatment. Thoroughly up-to-date, this book also covers computer modeling of heat treatment processes.

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