Introduction to Aluminum Alloys and Tempers

J. Gilbert Kaufman
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Preface

The idea for this timely reference book was originally suggested by Tom Croucher, a California-based consulting metallurgist. Dr. Croucher and Harry Chandler of ASM International provided input for the first draft version. I broadened it out substantially to cover the understanding of the advantages and limitations of aluminum alloy/temper combinations in terms of the relationship of their composition, process history, and microstructure to service requirements.

I would like to acknowledge Dr. John A. S. Green and the Aluminum Association, Inc. for making available critically important material for inclusion in this book. Among the Aluminum Association publications used as key references, notably on the alloy and temper designation system and aluminum terminology, were the following:

- *Aluminum Standards and Data*
- *Standards for Aluminum Sand and Permanent Mold Castings*
- *Aluminum: Technology, Applications, and Environment*

More complete citations to these and other reference materials are given in the Selected References, Chapter 8.

Among the ASM International books used as major sources, most notably for micrographs, are the following:

- *ASM Specialty Handbook: Aluminum and Aluminum Alloys*

Finally, I want to acknowledge the publications of the American Foundrymen’s Society, Inc. and the Diecasting Development Council, whose publications *Aluminum Casting Technology* and *Product Design for Die Casting*, respectively, provided excellent resources for casting terminology and descriptions of casting procedures.

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