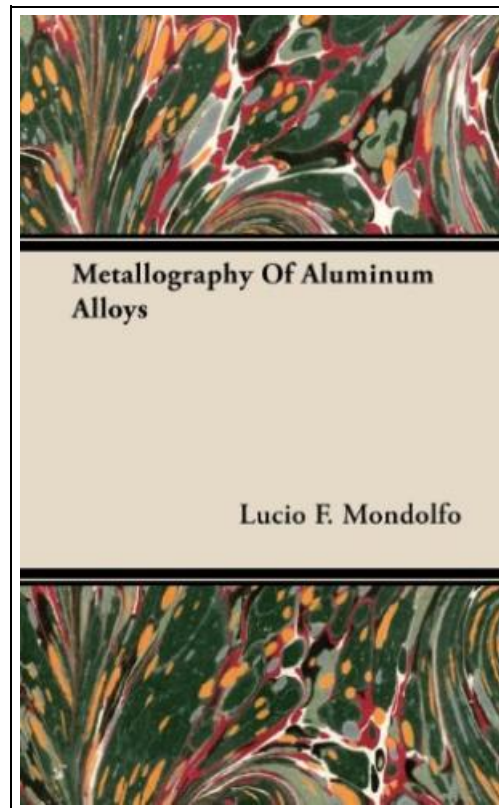


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METALLOGRAPHY OF ALUMINUM ALLOYS



Johnson Press. Hardcover. Book Condition: New. Hardcover. 360 pages. Dimensions: 8.6in. x 5.6in. x 1.3in. Metallography of Aluminum Alloys By Lucio F. Mondolfo. PREFACE: In the last few years, a continuous development in the use of aluminum alloys has steadily increased the number of metallurgists interested in them. Because of this growing interest and the fact that the most recent books on the subject are now somewhat outdated, it was believed that a new book could be useful. Since many books on the general metallurgy are available, this book has been limited purposely to aluminum alloys. It is intended for consultation by the plant metallurgist, rather than as a textbook for students. For these reasons no details are given on general metallurgy and metallography and most of the theoretical problems have not been treated at all or have been dismissed briefly. The first part of the book illustrates the equilibrium diagrams of aluminum alloys. All information about binary, ternary, and quaternary diagrams published up to date has been sifted, coordinated, and often integrated with data from the authors experiments, to eliminate the discrepancies between the different authors. Usually the discrepancies are only minor, but at times they are so wide that it has been necessary to report two sets of diagrams. Whenever possible the equilibrium diagrams have been reported graphically, limiting the text to facts about solid solubilities, eutectic and peritectic temperatures, crystal structures, etc., which could not be represented adequately in the diagrams. Most of the diagrams are only partial, because, when the complete diagram has not been established beyond doubt, it seemed better not to crowd the book with doubtful details which have no interest for commercial alloys. The same criterion has been applied to the bibliography, which is as complete...



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