



The Amerika

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center, 2005 OCLC Number: (OCoLC)695599772 Excerpt: . . . levels greater than 500MPa. Unlike Al Li, however, the Al Sc phase can form by rapid 3 3 solidification or by high temperature annealing above about 575F (300C). The Al Sc L1 3 2 phase, as well as the similar Al Zr phase have the potential of providing high strength up to 3 temperatures in the 300F (150C) range. A drawback for the Al Sc dispersion approach is 3 the cost impact to the alloy from the current Sc elemental cost. Sc costs in the range of 3 or more orders of magnitude greater than that of Al are prohibitive. Even with just a few tenths of a percent addition, it can increase the material cost significantly. In this program, an alloy composition was formulated based on 0. 15 wt. additions of Sc and Zr to the icosahedral phase alloy Al Fe Cr Ti identified above. 93 3 2 2 Al Mn dispersion alloys 6 Based on characterization results obtained from...



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