

[Mobile book] Metal Forming Methods, Vol 2: Forming By Draw Bench, Power Rolls and Spinning Heat Treatment of Al

Metal Forming Methods, Vol 2: Forming By Draw Bench, Power Rolls and Spinning Heat Treatment of Al

US Navy Bureau of Aeronautics
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US Navy Bureau of Aeronautics : Metal Forming Methods, Vol 2: Forming By Draw Bench, Power Rolls and Spinning Heat Treatment of Al before purchasing it in order to gage whether or not it would be worth my time, and all praised Metal Forming Methods, Vol 2: Forming By Draw Bench, Power Rolls and Spinning Heat Treatment of Al:

0 of 0 people found the following review helpful. Nice Overview for People Who Have Only a Vague Awareness of the TopicsBy Foolish PerfectionistThis book is suited to readers who are aware, but ignorant, of draw benches, power rolls, and metal spinning. In each case, sample equipment has been photographed, and subsequently described, typically with supporting illustrations.As to heat treatment of aluminum alloys, the discussion has a bit more depth. This text introduced me to cooling curves, equilibrium diagrams, and photomicrographs of aluminum grain structure. It inspires me to learn more about the physics involved.My only frustration with this text is that it refers to aluminum alloys by a system of designations which seems to have gone out of favor. I'm not familiar with "17SO" or "24ST", for example, and will have to research them if I care to connect those details. The numbers seem to designate alloys, and the letter "O" versus "T" seems to designate annealed versus tempered condition? That is all I could infer.As a republication of technical briefs, this 35-page book lacks a table of contents or index. It focuses on fabrication with aluminum, with only passing mention of aluminum-clad steel and stainless steel. The general outline includes:1. Forming by Draw Bench2. Forming by Power Rolls(a) Roller-Die Process(b) Contouring Rolls3. Forming by Spinning4. Heat Treatment Equipment and Practice(a) Theory of Heat Treatment(b) Heat-Treating Equipment(c) Heat-

Treating Procedure(d) Heat-Treatment of Rivets(e) Testing and InspectionI feel as though this book has given me just enough knowledge to ask intelligent questions or select engineering textbooks for further learning.I would have liked more detail about the specifications of equipment pictured in the text. I would have liked to read about the challenges of scaling up, or scaling down, such equipment for producing larger or smaller parts. This text seemed implicitly concerned with the fabrication of aircraft parts.

250 pages. Reprint of five pamphlets originally from the Industrial Press's Machinery Reference Series, 1910-1912. 1. #27: Loco design: boiler and cylinders. 2. #28: Loco design: valve motion. 3. #29: Loco design: smokebox, frames and driving machinery. 4. #30: Loco design: springs, trucks, cab, and tender. 5. #90: Railway shop practice from the Trenton shops of the Pennsylvania Railroad: Dismantling the loco; boring and relining cylinders; valves and valve seats; piston and rod; driving wheels and crankpin; driving box repairs; pedestal shoes and guides; rod work; throttle valve grinding; miscellaneous repairs; reassembling the loco.