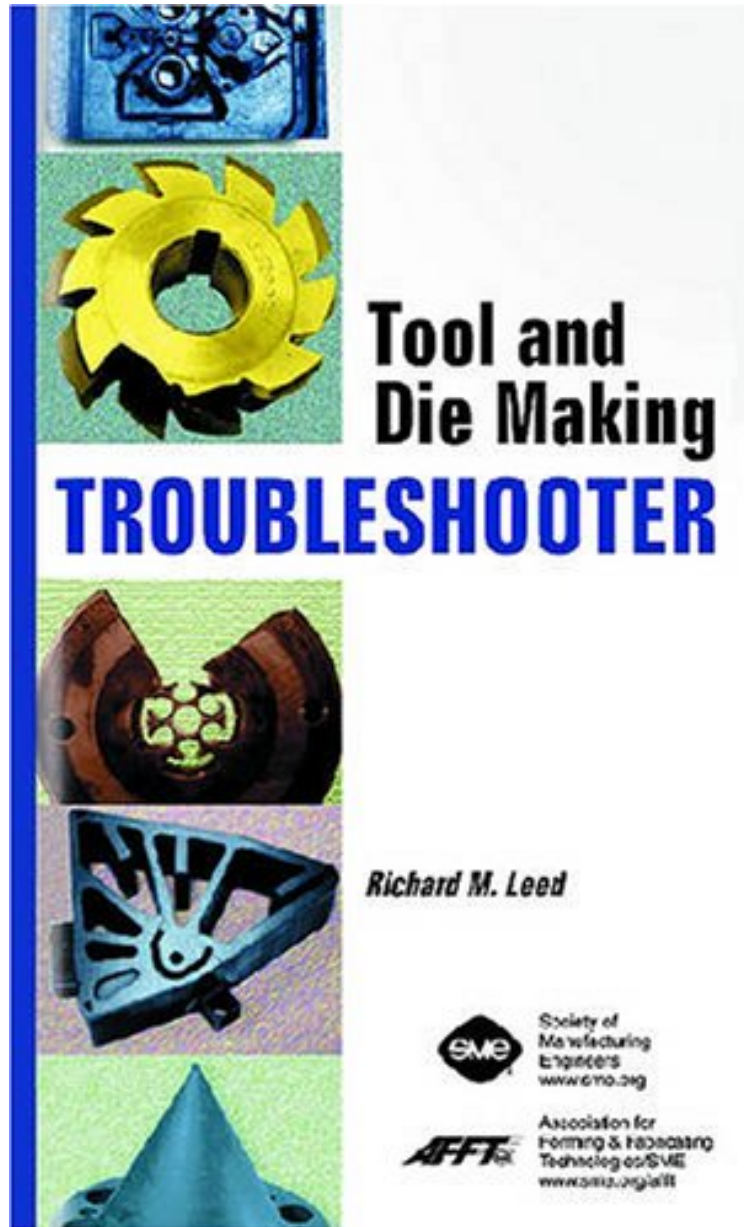


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# Tool and Die Making Troubleshooter

*Richard M. Leed*

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**Richard M. Leed : Tool and Die Making Troubleshooter** before purchasing it in order to gage whether or not it would be worth my time, and all praised Tool and Die Making Troubleshooter:

0 of 0 people found the following review helpful. Good basic information, datedBy User of Products and

Commodities Good book for its time, 2003. Things have changed a lot since then, and cryogenics is now a staple in heat treating technology. The author never mentions how critical it is to reach martensite finish temperature, which, for most alloys, is well below zero. He recommends immediate tempering from quenching only to room temperature, not the modern standard of heat treating. The book covers basic steels used in die industry at the time, water hardening, oil hardening, air hardening. Describes powder metal technology manufacture, but no heat treating, and no discussion of extremely high chromium-based alloys. This is good basic information, based on the knowledge and practice of the time. Lots of references to outdated factory and foundry data (from the 1930s, 1950s, and 1970s, with latest from the 1990s). A good starting point for basic understanding, but not the very best modern practice.

Conceived from years of problem solving, Tool and Die Making Troubleshooter is an indispensable guide for designing, constructing, and maintaining tools, dies, molds, and fixtures. The book contains hands-on information, valuable tooling tips, and procedural recommendations regarding the selection, processing, and use of materials.

About the Author Richard Leed began his career with Leed Steel Company, a family-owned metal service center. In 1980, he became Vice President and quickly realized the importance of cost-effective tooling and its impact on part quality and the financial success of a production operation. With this in mind, he took a strong interest in providing his customers with the technical and metallurgical assistance needed to optimize their tooling investments. These services included technical discussions, training presentations and specification and procedure upgrades for tool design, material selection, machining, heat treating, finish machining (grinding, welding, and electrical discharge machining, tools and die failure analysis, and troubleshooting. Richard Leed is a tool and die troubleshooting consultant to industry. He has authored numerous technical papers and manuals that focus on improving tool and die performance.