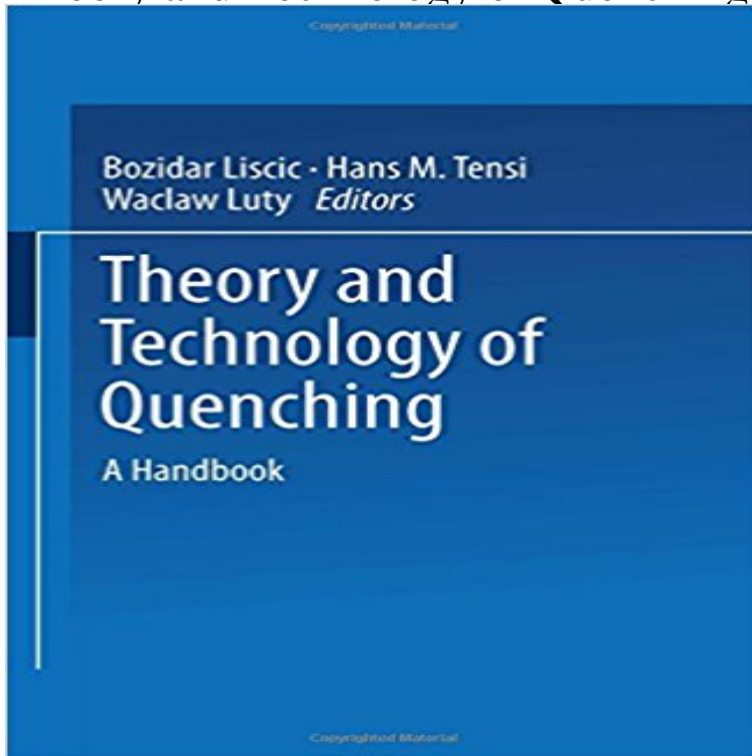


Theory and Technology of Quenching: A Handbook



Heat treatment of metallic alloys constitutes an important step within the production process. The heat treatment process itself is considered as a cycle of heating the workpieces to a predetermined temperature, keeping them at this temperature for the time period required, and cooling them to room temperature in an appropriate way. The process of heating and keeping workpieces at the required temperature is nowadays well mastered and mostly automatized. The process of cooling or quenching which determines actually the resulting properties, is handicapped with many physical and technical uncertainties. Good results can already be obtained predominantly by using empirically based practice. But increased demands on the properties of the products as well as demands on safety and environment conditions of the quenching media require efforts to investigate the details of the quenching process and to transfer the results of the research to practical application. Advances in the knowledge about quenching processes have been achieved by modern applied thermodynamics especially by the heat and mass transfer researches; further the application of computer technology was helpful to new approaches in quenching processes. Special emphases have been given to:

- The theory of heat transfer and heat exchange intensification during quenching
- Wetting kinematics
- Residual stresses after quenching
- Determination of the quenching intensity
- Prediction of

microstructural transformation and hardness distribution after quenching, the latter with some limitations.

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