

# Shot Peening

*A Dynamic Application and Its Future*



**6th  
Edition**

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Despite of its ever increasing importance of shot peening in many industries such as aviation, aerospace and automotive industries, it is still not taught at many technical universities. A great part of the education concerning shot peening has been left to the private sector. At the MFN education division, hundreds of specialists are trained every year in the process of shot peening. MFN has access to over 30 shot peening trainers. Furthermore the organisation has access to 3 permanently available training centres in Germany, Holland and Singapore in which practical education is offered. The initial idea for this book *Shot Peening* was to summarise basic shot peening knowledge in a well-structured way and to make it available to professionals around the world. The book has been revised and updated for the 6<sup>th</sup> time and is including chapters about future developments in shot peening or related technologies. The combined knowledge of over 20 authors that are specialised in shot peening and the fact that it reached already its 6<sup>th</sup> edition, turn this book into one of the most read professional literatures in this industry.

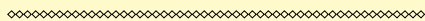
**Topics:**

Introduction to peening and theory, peening intensity, effect of peening, Almen saturation curves, peening coverage, exposure time, trouble shooting, process documentation, masking solutions, workpiece fixtures, shape & size inspection of peening media, cut wire, cast steel shot, specifications, shaded strips, peening equipment components, air & wheel peening, machinery types and application examples, hole peening, flap peening, optimization of shot peening for fatigue critical applications, residual stress, XRD measurement, quantitative characterization of the shot peening process, laser peening, shot peening in the automotive industry, shot peening process improvements, additives for peening and blasting; also introducing deep rolling, future developments, etc.

*"This book, Shot Peening, comprises a series of articles, each written by an acknowledged expert in the field. It is highly recommended for anyone interested in using shot peening to improve the performance of structural components, particularly those that are expected to experience subsequent fatigue loading."*

**Prof. Lothar Wagner**

**Acting Director, Institute of Materials Science and Engineering,  
Clausthal University of Technology, Germany**



*"I am pleased to note that MFN pooled its team of experts to write a book on shot peening. The technical contents provide good coverage on the subject and serve as a very useful guide and training reference to industries."*

**James Leung**

**Deputy Director, Mechanical Engineering Division, School of  
Engineering, Ngee Ann Polytechnic Singapore**

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