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Contact: Julie Prevéy, 513.561.0883, jprevey@lambdatechs.com

Lambda Technologies Authors XRD Residual Stress Measurement Chapter for ASM Materials Characterization Handbook

Cincinnati (OH) – ASM International recently published the 2019 edition of its ASM Handbook, Volume 10: Materials Characterization. The article on X-ray Diffraction Residual Stress Techniques is authored by Paul Prevéy and Douglas Hornbach of Lambda Technologies Group.

Paul Prevéy is CEO of Surface Enhancement Technologies (SET), which provides surface treatment engineering and production services. Low Plasticity Burnishing (LPB®) was invented at SET. Doug Hornbach is CEO of Lambda Research, the X-ray diffraction and materials testing laboratory. Lambda Technologies Group is an organization that specializes in the understanding, measurement, and control of local residual stresses to provide complete surface enhancement solutions.

The 2019 edition ASM Handbook Volume 10 features significant updates to articles that appeared in the 1986 edition, according to ASM International, including major revisions to divisions including X-ray and neutron diffraction.

Hornbach, who co-authored the latest edition of the X-ray Diffraction Residual Stress Techniques article, talks about the new edition.

“We were excited and honored to work with ASM on updating this article of the ASM Handbook. From the beginning, our goal was that this article would serve as a practical guide to industry for properly applying X-ray diffraction residual stress techniques to solve critical component problems. This new edition includes the latest advances in X-ray diffraction residual stress methods, the addition of more real-life examples, and an expanded list of other residual stress measurement methods available to industry. We hope this article provides the industry with a useful tool in solving important engineering problems. ”

ASM Handbook, Volume 10: Materials Characterization is available at asminternational.org/hbvol10 or by calling the ASM International Member Service Center at 800.336.5152.

About Lambda Technologies Group

Lambda Technologies is an innovative company incorporating a premier materials research laboratory with a world-class engineering and production enterprise dedicated to the development and optimization of surface treatments to improve component performance.

To learn more about Lambda Technologies Group, visit lambdatechs.com or call 800.883.0851. Follow Lambda Technologies Group on LinkedIn.

About ASM International

ASM International is the world's largest and foremost professional technical society serving the information needs of scientists, engineers, and technicians who develop, test, select, and apply advanced materials, including metals, composites, polymers, and ceramics. As the world's largest and most established materials information society, ASM engages and connects members to a global network of peers and provides access to trusted materials information through reference content and data, education courses, international events, and applied research.

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