



SHG For Nondestructive Testing of Metals

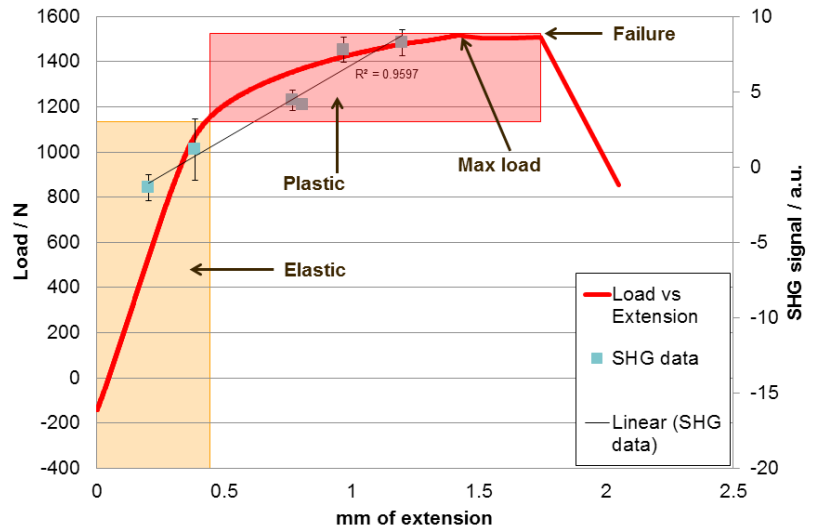
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DESCRIPTION

Second harmonic generation (SHG) is a non-linear optical method of nondestructive testing (NDT) for metals and coated materials. This NDT method has the potential to detect the earliest possible signs of material weakness. SHG also has the potential of being a portable, field deployable system, allowing for on-site testing.

PROBLEM SOLVED

Current NDT methods can identify damage in a material when cracks have started to form. Dr. Patterson invented a method that can determine imminent failure even before cracks have formed thus minimizing the risk of catastrophic failure.



KEY ADVANTAGES

- » Sensitivity to effects of deformation before cracks have formed
- » Low likelihood of false positives
- » Remote, non-invasive detection

Offer:
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APPLICATIONS

Aerospace industry, nuclear field and any industry where a failure of a component would cause significant hazard or economic loss.

IP STATUS:
 US Application and PCT
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