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Creativity - the versatile non-destructive testing technique [or NDT and seamless living]

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Abstract

Sensory examination has long been the omnipresent non-destructive testing technique. It is perhaps as old as humanity itself. Interpretation of the observations, signals, odors and other feedback through the senses is depends on one's creativity and common sense.

Creativity is the use of awareness generated through sensory inputs to trouble shoot malfunction of systems. It started with human systems. Examples are feeling the organs by touching the skin over the appropriate organs, feeling the pulse, stethoscope etc. With industrial revolution, it spread to other systems like automobiles, steam engines, production etc.

Sophisticated technology has however pushed it to the background in recent years. As the need for safety, security and quality increases creativity assumes a dominant role as non-destructive technique. More so because it is proactive and cost effective as well.

This paper consequently traces the avenues creativity opens to construction, instrumentation, production, process and other industries. Awareness leading to safety, security and quality through the auditory, gustatory, olfactory and tactile feedback is the focus. How it is used and how it can be used is also discussed.