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(57) Abstract :

The present invention discloses a method and system for surface crack identification using image processing techniques. Said metal crack identification system through CAD system (1) comprise of at least a SEM photography instrument (10), an operating system (2) with storage unit (13) and processor (14), a display unit (15) and power supply means (16) wherein said storage unit (13) is interconnected with the processor (14) and the processed images are displayed in display unit (15). Said operating system processes the images through numerical computing software preferably in MATLAB environment. Surface crack identification system helps to improve accuracy, life time and performance of the products and thereby reduces the failures, material . wastages and manufacturing cost of the manufacturers.

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