



SURFACE VEHICLE INFORMATION REPORT

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Electromagnetic Testing by Eddy Current Methods

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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1. Scope—The purpose of this SAE Information Report is to provide general information relative to the nature and use of eddy current techniques for nondestructive testing. The document is not intended to provide detailed technical information but to serve as an introduction to the principles and capabilities of eddy current testing, and as a guide to more extensive references listed in Section 2.

2. References

2.1 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

2.1.1 ASM PUBLICATION—ATTN: MSC/Book Order, ASM International, PO Box 473, Novelty, OH 44072-9901.

Metals Handbook, Eighth Edition, Vol. 11, 1976, pp. 75–93.

Metals Handbook, Ninth Edition, Vol. 17, Nondestructive Evaluation and Quality Control, 1989.

2.1.2 ASTM PUBLICATION—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

ASTM Annual Standards, Part 11, Standards E 215, E 243, E 268, E 309, E 376, E 426, E 566, E 570, E 571, E 690.

2.1.3 OTHER PUBLICATIONS

Nondestructive Testing Handbook, Second Edition, Vol. 4, Electromagnetic Testing, 1986, American Society for Nondestructive Testing, Columbus, OH 43228

Programmed Instruction Handbooks, PI-4-5, Eddy Current Testing, 1971. Classroom Training Handbook, CT-6-5, Eddy Current Testing, 1971. The above prepared by General Dynamics and available from American Society for Nondestructive Testing.

Hugo L. Libby, Introduction to Electromagnetic Nondestructive Test Methods, New York: John Wiley and Sons, Inc., 1985

Tool and Manufacturing Engineer's Handbook, Vol. 4, Quality Control and Assembly, 1987, Society of Manufacturing Engineers, Dearborn, MI 48121