

書籍のご案内

Magnetic Testing II 2018

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The Japanese Society for Nondestructive Inspection has been certifying NDT (non-destructive testing) personnel based on JIS Z 2305: 2013 “Non-destructive testing – Qualification and certification of NDT personnel” (ISO 9012:2012 “Non-destructive testing – Qualification and certification of NDT personnel (MOD)”). It is necessary for NDT personnel to perform actual task with proper knowledges and experiences corresponding to each level of each non-destructive testing field.

Magnetic testing is a testing method which has excellent ability for detecting flaws existing on the surface or sub-surface of a ferromagnetic material, and this has been widely applied for inspecting important equipment, structures, welds, etc. Since there are many kinds of techniques in magnetic testing depending on test objects and purposes, it is necessary for the personnel to understand the principle of each technique and perform the testing surely by getting in practice in each technique. Hence the personnel have to get sufficient education and training of magnetic testing.

This textbook was published for people who want to get the certification of magnetic testing Level 2 and this includes the content of fundamental knowledge and the actual testing methods

JIS Z 2305: 2013 stipulates that an individual certified to Level 2 has to have the competence as follows:

- a) select the NDT technique for the testing method to be used
- b) define the limitations of application of the testing method
- c) translate NDT codes, standards,

specifications, and procedures into NDT instructions adapted to the actual working conditions

d) set up and verify equipment settings

e) perform and supervise tests

f) interpret and evaluate results according to applicable standards, codes, specifications or procedures

g) carry out and supervise all tasks at or below Level 2

h) provide guidance for personnel at or below Level 2

i) report the results of NDT.

The authors hope that the textbook should be useful for readers who want to get the certification of magnetic testing Level 2 and are happy if personnel who have already got the certification exploit the textbook when they review the fundamentals and reconfirm vague knowledge about magnetic testing.

<Note>

The contents represented by *italic* show those not specified in ISO 9934 series : 2015 though specified in JIS 2320 series: 2017.

