

書籍紹介のご案内

METALS and ALLOYS

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Many of materials, many kinds of products and structures which are a target of nondestructive testing are composed of metals. Hence it is important to have fundamental knowledge on metallic materials and technical knowledge on products and manufacturing techniques for performing proper nondestructive testing. Moreover, welding is used in many cases as a technique for manufacturing many kinds of products and structures, and it is necessary to have knowledge on the strength and fracture of metallic materials in order to manufacture them safely and economically.

In this textbook authors tried to summarize the contents nondestructive testing personnel should understand as well as possible. Though there are many kinds of metallic materials used generally all over the world, the focus was concentrated to metallic materials which are widely used. This will be useful for Level 1 personnel and Level 2 personnel when they study metallic materials.

The authors hope readers will acquire fundamental knowledge on metallic materials through this book and contribute to the society through nondestructive testing which is a place to use the readers' skills.

〈Note 1〉 In this text book element content is expressed as mass percent.

〈Note 2〉 The content of this book is in principle based on “METALS and ALLOYS II” (in Japanese) published by The Japanese Society for Non-Destructive Inspection in 2018.

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