

Preface

The Mechanical and Metal Trades Handbook is well-suited for shop reference, tooling, machine building, maintenance and as a general book of knowledge. It is also useful for educational purposes, especially in practical work or curricula and continuing education programs.

Target Groups

- Industrial and trade mechanics
- Tool & die makers
- Machinists
- Millwrights
- Draftspersons
- Technical Instructors
- Apprentices in above trade areas
- Practitioners in trades and industry
- Mechanical Engineering students

Notes for the user

The contents of this book include tables and formulae in eight chapters, including Tables of Contents, Subject Index and Standards Index.

The **tables** contain the most important guidelines, designs, types, dimensions and standard values for their subject areas.

Units are not specified in the legends for the **formulae** if several units are possible. However, the calculation examples for each formula use those units normally applied in practice.

The **Table of Contents** in the front of the book is expanded further at the beginning of each chapter in form of a partial Table of Contents.

The **Subject Index** at the end of the book (pages 435–444) is extensive.

The **Standards Index** (pages 425–434) lists all the current standards and regulations cited in the book. In many cases previous standards are also listed to ease the transition from older, more familiar standards to new ones.

Changes in the 3rd edition

In the present edition, we have updated the cited standards and restructured, updated, enhanced or added the following chapters in line with new developments in engineering:

- | | |
|---|--|
| – Fundamentals of technical mathematics | – PAL programming system for NC turning and NC milling |
| – Strength of materials | – Steel types |
| – Plastics | – Material testing |
| – Production management | – Machining processes |
| – Forming | – Injection molding (new) |
| – Welding | – GRAFCET |

Acknowledgement

Special thanks to Alexander Huter, Vocational Training Specialist – Tool and Die, Ontario, for his input into the English translation of this book. His assistance has been extremely valuable.

November 2012

Authors and publisher

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