Preface of the 2\textsuperscript{nd} revised edition

IEC 61131 (“IEC 1131” until 1998) has become widely established in recent years as the programming standard in automation industry. Today, a wide range of small to large PLC manufacturers offer programming systems that are based on this standard. Additional standards and recommendations (e.g. for Motion Control) complement IEC 61131 with functionality in response to growing market requirements.

One of the most important advancements is IEC 61499 (formerly IEC 1499). The basic concepts and ideas of this standard are described in a separate chapter (Chapter 9). Its significance in connection with distributed PLC systems is discussed in Section 7.8.

IEC 61131 is now available in a second edition. The numerous changes and supplements to this standard have been incorporated in the 2\textsuperscript{nd} edition of this book.

A comprehensive index at the end of the book facilitates the search for specific topics.

The enclosed DVD and CD contain the complete demo versions of two programming systems (in the latest versions), enabling the reader to immediately implement and consolidate the knowledge gained from this book by practical application.

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