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Foreword to third edition

The third edition represents a remarkable extension of the second edition of *Elevator Mechanical Design*. All chapters have been revised and most of them have been extended to include compliance with modern practice, such as the new technology that has appeared worldwide and the new methods of calculation. A great number of new illustrations have been incorporated to make this book as instructive as possible.

The six years between the second and third editions have been revolutionary in many respects. Completely new elevator concepts have appeared, such as machine-room-less elevators or the SchindlerMobile®. Worldwide standards have been revised and new requirements have been incorporated, e.g., provisions against uncontrolled movement of ascending car that must be accomplished in compliance with the European Standard EN 81-1:1998. All these new designs and requirements have been included in this book.

Some elevator equipment from the time of the second edition has been removed or modified. However, many machines, safety gears, buffers, etc. presented in the second edition are still in successful operation and reflect the state-of-the-art of that time. It has been the author's decision to show the readers the evolution and development of these designs and constructions.

The author's intention has been to tell his readers how to design an electric elevator from the mechanical engineering viewpoint and also why the design is implemented in a particular way.

The book is aimed primarily at engineers, designers, elevator consultants, manufacturers and inspectors, but will also be useful to

architects, safety personnel and students with an interest in or involvement in elevator design, operation and safety.

As with the second edition, many of my friends and colleagues have contributed to this work, and I am pleased to express my appreciation to all of them. I owe a lot particularly to those without whose encouragement and support this book would never have been written: to my old-time friend, Mr. William Sturgeon, founder of ELEVATOR WORLD and to Dr. G. Barney, who was the editor of two preceding editions. I feel much obliged to Dott. Eng. Giuseppe Volpe, Dr. David Cameron and Dipl-Ing. Roland Stawinoga for their assistance and for providing many illustrations and technical documentation. I wish to extend my thanks to Mrs. Ginger McDaniel, Ms. Terri Wagner and Ms. Julie Strahan of ELEVATOR WORLD for the proofing and editing of the book and for the technical assistance, to Dr. Jirí Sojka of the Czech Technical University of Prague for formatting the book and, last, but not least, to Mrs. Ricia Hendrick, president of ELEVATOR WORLD, for her wonderful understanding and for the publishing of this book.

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