

PREFACE

Türkiye joined the Customs Union Community in 2000. Several new commercial rules have started to be executed. Manufacturing conditions have also changed. A shift was made from the Classical approach to the New approach in product definition. Directives and CE marking have become compulsory. The lift industry has faced new practices just as many other industries did. Implementation conditions, calculation principles, delivery, and acceptance of the lift have began to be applied differently than the known conditions. All the truths we once knew have become wrong suddenly. In this period, I published books "Asansörde Pratik Bilgiler" (Practical Information on Lifts) and "Asansör Uygulamaları" (Lift Practices) in 2001 and 2005 respectively to facilitate the transition. These books were prepared for our friends in the industry to examine the calculation principles, CE marking and modules, lift control forms according to the new application, and facilitate the application. Swift changes in the standards, the addition of several new standards, and changes in Directives followed one after the other in the next period. Every new rule brought along discussions and different implementation understanding. Articles in the book consist of subjects written under such conditions of discussion.

The discussions and implementation methods that emerged at different times led to disagreements between the parties. I tried to express my opinions on these discussions through various articles at different times. I agreed to the discussions and tried to add my suggestions in the articles as well. The reason of the discussion and answering style in the articles is that they were written as a result of a discussion. Objections or questions to the relevant article are published as "Answers to Questions" at the end of the article. I assume that these explanations will help our colleagues who follow the same path.

First of all, I would like to express that I am not an academic but a field engineer. My method of writing is to examine several people who are known to be authorities on the subject under discussion, to collect their ideas on the subject and to try to form a basis for discussions. All of my articles constitute an open call for academics. Every subject in this book is open to development and examination and I would be happy for any contribution to the subjects discussed.

I have had the opportunity to provide consultancy to very esteemed companies. I had the opportunity to work with valuable colleagues in these companies, and every time I intended to offer something to them, I also benefited from their valuable knowledge and experience. We carried out studies, estimations, and implementations together in field practices and manufacturing areas. In this regard, I would like to mention about their precious efforts and express my thanks to them. The articles prepared apart from the ones written as a group should also be considered collective works. Suggestions are included in certain field practices except for the estimations. I would also like to thank my family, who maturely welcomed me to steal from their time while doing all this work and to live together with the lift.

This book has been crafted as a tool to create an opinion on the subjects addressed and provide help on the discussions. This publication does not aim to replace the willpower of lift designing craft's examination, evaluation, and willpower to take decisions. The book's author, Serdar Tavaslıoğlu, declares that he refuses any responsibility due to measures taken or not based on this guideline.

CONTENTS

1. 2020.10 A CALCULATION METHOD FOR TWO-WAY TRAFFIC FOR LIFTS IN HIGH-RISE BUILDINGS
2. 2020.04 LIGHTING AND PRESSURIZATION CALCULATIONS
3. ELEVATOR STANDARDS AND PROTECTION AGAINST ELECTRIC SHOCK
3.A Answers To The Questions For Protection Against Electric Shock
4. 2018.09 STRESSES ON BRACKET AND CONNECTION COMPONENTS IN ELEVATORS
5. 2020.05 STANDARD SUMMARY AND ADDITIONAL RAIL CALCULATIONS WITH RESPECT TO SEISMIC FORCES
6. 2024.09.23 A CALCULATION PROPOSAL FOR THE LIFT CAR AND COUNTERWEIGHT, SAFETY GEAR WORK AND SLING STRUCTURE IN THE CASE OF SEISMIC MOVEMENT
7. 2020.06 REVERSE BENDING AND ITS EFFECTS ON LIFT ROPES
7.a Answers To The Questions On The Reverse Bending And Its Effects On Lift Rope
8. 2019.05 REGULATOR ROPES AND TENSIONING SYSTEM.
8.a Answers To Questions On Regulator Ropes And Tensioning System
9. 2022.07 GENERAL FORCE CALCULATIONS IN SAFETY GEARS
10. 2021.01 A CALCULATION METHOD FOR DETERMINING THE CAPACITY OF DISC BRAKES USED IN GEARLESS MACHINES
10.a Answers to the questions on A Calculation Method For Determining The Capacity Of Disc Brakes Used In Gearless Machines
11. 2021.10 ADDITIONAL LIFT SCENARIOS SUGGESTED FOR EMERGENCIES AT SUPER HIGH-RISE BUILDINGS
11.a Some Opinions Stated During The Panel On 'Status Of Lifts In Buildings During Earthquake And Fire
12. 2022.06 SOME PROPOSALS FOR MRL SYSTEMS
12.a Answers to the questions on "Some Proposals for MRL Systems"
13. 2019.05. FITLIFT" ELEVATOR DESIGN FOR WELLS REDUCED OF TOP AND PIT CLEARANCES
14. 2018.05 DOUBLE DRIVE ELEVATOR SYSTEM AND GIGALIFT

SERDAR TAVASLIOĞLU

Tavaslioğlu graduated from the Middle East Technical University (METU) Faculty of Engineering, Department of Electrical Engineering, Industrial Electricity and Motor Control in 1980. He joined the industry as a cofounder at Astaş A.Ş. He worked as installer and engineer regarding the lifts. Working in the Lift Commission of the Izmir Branch of the Chamber of Electrical Engineers (EMO), Tavaslioğlu worked as Technical Manager, Quality Management System and Technical Consultant as part of the Lift Directive and Machine Safety Directive at SERKON Danışmanlık Ltd. Şti., which he founded, after 1996. During this duty, he participated in the preparation and form-writing of lift controls and control criteria at EMO and MMO Izmir Branches Joint Lift Commission. He worked as a de facto control officer for a long time in the lift control works carried out by this commission in Izmir.

He participated in the training activities and establishment of laboratories of the Chambers of Electrical and Mechanical Engineers. He made an effort to popularize training studies carried out in various cities on lift controls. He also strived to ensure that courses on lifts were given at the university and the establishment of laboratories in the Lift Departments of the Industrial Vocational High School. Tavaslioğlu, who served in the ASTEK Lift Standing Commission and Sub-technical Committees of the Ministry of Industry and Trade, has two published books, "Elektrik Mühendisleri İçin Yapı Denetim Kriterleri" (Building Inspection Criteria for Electrical Engineers) and "Asansörde Pratik Bilgiler" (Practical Information in Lifts). The second edition of the latter was then expanded and published again as "Asansör Uygulamaları" (Lift Practices) in 2005. Additionally, technical and general evaluation articles on lifts have been published in the Chambers' media channels and lift industry magazines. Serdar Tavaslioğlu took a role in the executive boards of the Izmir Lift Symposium and the executive committees of Inelex Izmir Lift Expo. He carried out development works at various manufacturing companies where he worked as a consultant, on lift components such as engines, machines, system solutions, doors, cars, regulators, electro-mechanical and mechanical brake. Serdar Tavaslioğlu currently works as a freelance technical consultant. He publishes articles on www.serdartavaslioglu.com, mail adres is serdartavaslioglu@gmail.com.