

The Elevator Safety Chain

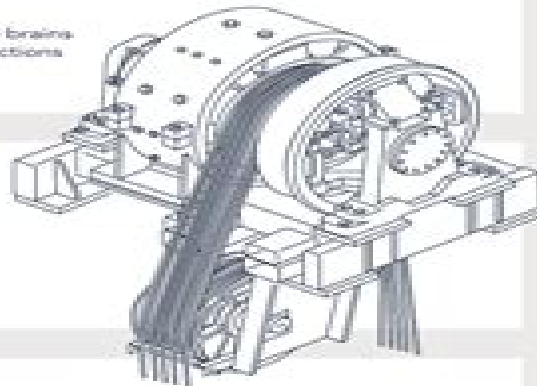
OTIS

1 The Controller

Microprocessor-based controllers are the brains of the system, controlling all elevator functions based on data received from multiple subsystems, components and sensors.

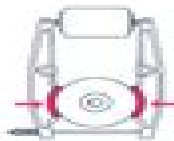
2 The Machine

The gearless machine consists of a motor, traction sheave and brake. The sheave drives the cables attached to the elevator car and counterweight. In a gearless traction machine, the drive sheave is an integral part of the motor.

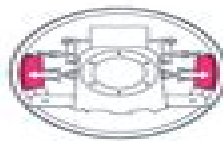


3 The Brakes

Modern elevators use friction brakes: a pair of shoes that apply equal and opposite pressure to a drum, pulley or disc mounted on the motor shaft. Springs apply the brake shoes to the pulley and are lifted electrically. If power is lost, the brake applies.



EXTERNAL DRUM

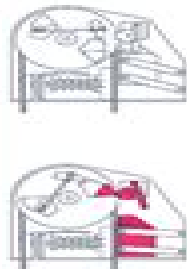


INTERNAL DRUM



DISC TYPE

4



Governors

The governor continuously monitors car speed. If the car exceeds its maximum rated speed, flyweights inside the governor spring outward, causing the governor to initiate action: first engaging the machine brake, then engaging the car safeties.

5

Safeties

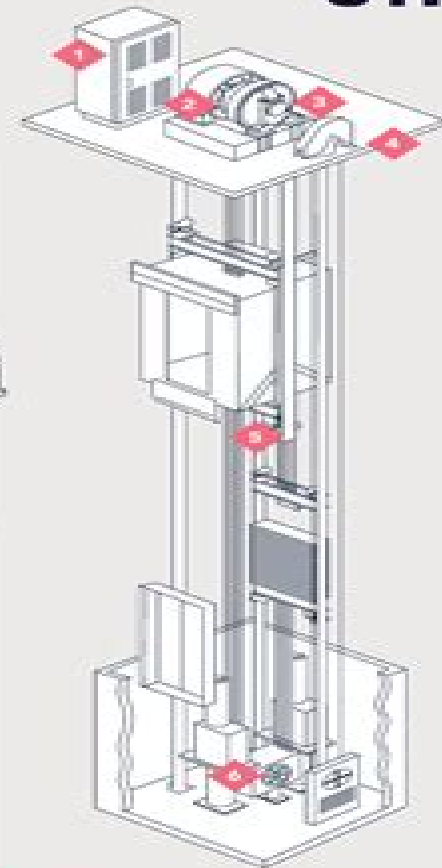
Located on the elevator car itself, the safeties grab the hoistway rails when activated.



6

Buffer

Positioned at the bottom of the hoistway, buffers can absorb and dissipate the energy of a descending elevator.



Safety First Manual Otis Elevators

Edgar Thorpe



Safety First Manual Otis Elevators:

Reference Manual on Scientific Evidence ,1994 Pearson General Knowledge Manual 2009 Edgar Thorpe,Showick Thorpe,2008-02 An Updated and Revised Edition of the Most Popular General Knowledge Manual FEATURES Up to date comprehensive and all purpose in approach Includes a set of multiple choice questions at the end of each section to test your understanding Based on current trends in various examinations National and international current affairs included

Elevator and Escalator Rescue, 2nd Ed Theodore Jarboe,John O'Donoghue,2019-02-22 The long awaited second edition of Elevator Escalator Rescue A Comprehensive Guide from Theodore Jarboe John O Donoghue is written by firefighters for firefighters and contains important information for technical rescue members training officers and fire company members alike This book details the risks involved in elevator and escalator rescues and how to face them successfully Key Features A comprehensive guide for dealing with elevator and escalator emergencies including a complete review and updating of all chapters Coverage spanning the evolution of elevators from their most primitive stages to include today s high tech innovations modular wind turbine pneumatic and destination control systems as well as STM suspension belts A new chapter Chapter 35 containing information and the description about the Fire Service Access Elevator FSAE What they are where will they be found and building code changes that will help safeguard the firefighters using these elevators This will include the use of a Narrative Sheet to ensure compliance with requirements A new chapter Chapter 33 on the Occupant Evacuation Operation OEO and Occupant Evacuation Elevator OEE elevators These systems are already in place in new design ultra high rise buildings in the US They will be used to evacuate the occupants in these buildings An updated elevator glossary of elevator and escalator terminology Chapter ending questions to test students comprehension

The Rough Guide to Chicago Rich McHugh,2003 An honest illustrated detailed guide to the quintessential American city Full coverage of all the neighbourhoods including the downtown Loop and its prominent skyline and ethnic enclaves like Greektown and Pilsen plu ssighs from the Art Institute of Chicago to the shops on Michigan Avenue and all the Frank Lloyd Wright houses in Oak Park Listings of restaurants nightlife and accomodation cater for all budgets and include places to hear the Chicago Blues and engage in local pastimes such as rooting for the doomed Cubs baseball team Tours and excursions to the North Shore are also listed **The Pearson General Knowledge Manual 2012** Edgar Thorpe,2012 **Industrial**

Standardization ,1961 Steel Contruction Manual Helmut C. Schulitz,Werner Sobek,Karl J. Habermann,2012-12-10 No detailed description available for Steel Contruction Manual *Lifts and Escalators* Dieter Unger,2023-12-06 This book offers everyone who plans builds or operates lifts and escalators a comprehensive overview of the important topics starting with the standards and technical rules through to the history of technology Planning operation maintenance and documentation of lifts and escalators are described Numerous meaningful color illustrations complement the text The book serves as a reference work for operators of lifts and escalators The many examples tips and advice from practice make it a

helpful companion in daily work **Magazine of Standards** ,1965 Industrial Standardization ,1945 The Pearson General Knowledge Manual 2011 Thorpe Edgar,2011-09 **The Pearson General Knowledge Manual 2010 (New Edition)** Thorpe,2010 An Updated and Revised Edition of the Most Popular General Knowledge Manual Best's Safety Directory of Safety, Hygiene, First-aid and Fire Protective Products ,1966 **Accident Prevention Act** United States. Congress. House. Committee on Education and Labor,1950 High-rise Security and Fire Life Safety Geoff Craighead,2003 High Rise Security and Fire Life Safety serves as an essential tool for building architects building owners and property managers security and fire safety directors security consultants and contract security firms Provides the reader with complete coverage of high rise security and safety issues Includes comprehensive sample documentation diagrams photographs to aid in developing security and fire life safety programs Serves as an essential tool for building owners and managers security and fire safety directors security consultants and contract security firms **Safety** ,1949 *Glass Construction Manual* Christian Schittich,Gerald Staib,Dieter Balkow,Matthias Schuler,Werner Sobek,2012-12-10 Glass offers a wide variety of possible applications for the realization of even the most ambitious designs in architecture and in the past two decades it has experienced an unparalleled burst of innovation For planners this means working constantly with this high performance material In compact and appealing form the completely revised Glass Construction Manual presents the current state of the art on planning and building with glass from the history through the technical foundations all the way to the most innovative applications Astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work **A History of Mechanical Engineering** Ce Zhang,Jianming Yang,2020-01-03 This book explores the history of mechanical engineering since the Bronze Age Focusing on machinery inventions and the development of mechanical technology it also discusses the machinery industry and modern mechanical education The evolution of machinery is divided into three stages Ancient before the European Renaissance Modern mainly including the two Industrial Revolutions and Contemporary since the Revolution in Physics especially post Second World War The book not only clarifies the development of mechanical engineering but also reveals the driving forces behind it e g the economy national defense and human scientific research activities to highlight the links between technology and society mechanical engineering and the natural sciences and mechanical engineering and related technological areas Though mainly intended as a textbook or supplemental reading for graduate students the book also offers a unique resource for researchers and engineers in mechanical engineering who wish to broaden their horizons **Official Gazette of the United States Patent Office** United States. Patent Office,1972-04 **America at the Fair** Chaim M. Rosenberg,2008 At the time of the World s Columbian Exposition of 1893 the United States was fast becoming the world s leading economy Chicago the host city had grown in less than half a century from a village to the country s second largest metropolis During this the Gilded Age the world s most extensive railroad and steamship networks poured ceaselessly through Chicago carrying

the raw goods and finished products of America's great age of invention and industrial expansion. The Fair was the largest ever at the time with 65,000 exhibitors and millions of visitors. It has been called the Blueprint of the American Future and marked the beginning of the national economy and consumer culture.

Unveiling the Magic of Words: A Review of "**Safety First Manual Otis Elevators**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Safety First Manual Otis Elevators**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

https://letsgetcooking.org.uk/files/Resources/HomePages/what_jesus_meant_by_garry_wills_.pdf

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