



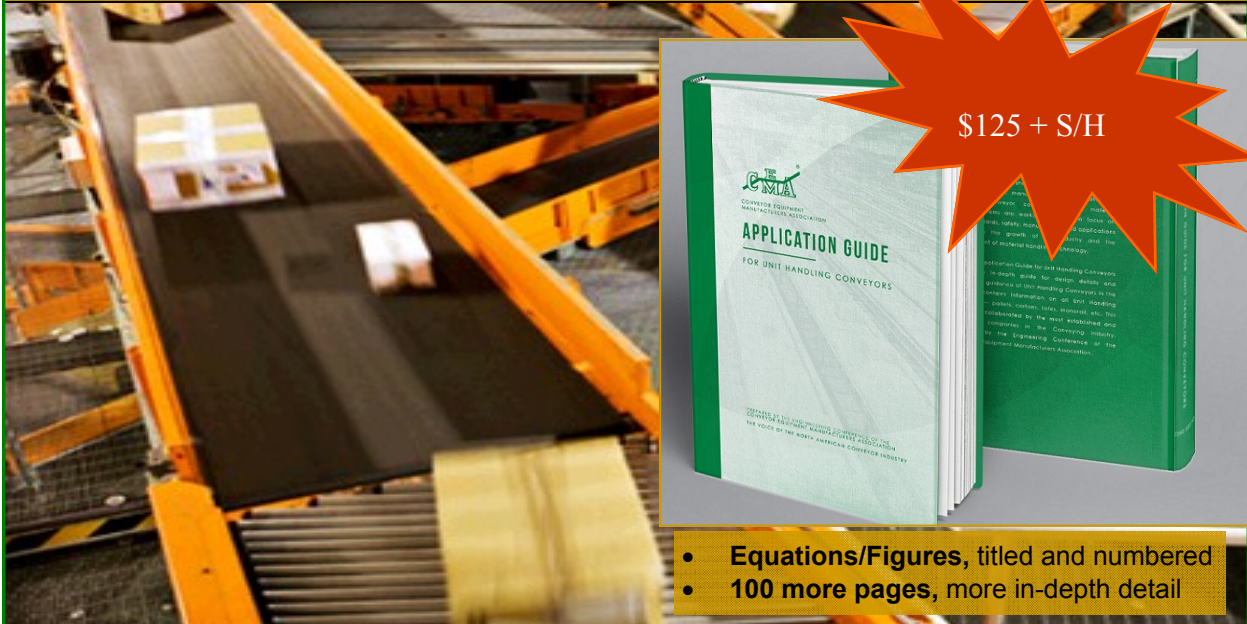
**ANTICIPATE 2015 RELEASE!**

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## ALL NEW 2nd EDITION

### CEMA APPLICATION GUIDE FOR UNIT HANDLING CONVEYORS

*"A must-have book for novice and experienced engineers, distributors, OEM's, consultants, and universities."*



#### CHAPTERS

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### ***Summary of some of the chapters:***

- **Chapter #4, Belt Curve Conveyors**—This chapter is designed to assist the reader in understanding Belt Curve Conveyors, such as: Learn Pro's and Con's of different drive methods; Size the curve based on package sizes and orientation; Know geometry of a belt curve before you integrate and much more.
- **Chapter #20, Friction Systems**—This chapter is designed to assist the reader in understanding Friction Systems, such as: Learn about types of Friction Drive Systems; Gain insights on benefits and features; Understand design parameters; Basics of Friction Drive Conveyor maintenance; Applications that a Friction Drive Conveyor can fulfill; Safety benefits and considerations of Friction Systems.
- **Chapter #22, Conveyor Controls**—This chapter is designed to assist the reader in understanding Controls, such as: Conveyor Control design concepts including power types, control types, power/control system architectures, and safety systems; Learn design considerations and hardware selection; Learn unit conveyor power and controls referenced industry electrical and safety standards; Application examples.
- **Chapter #25, Motors**—This chapter is designed to assist the reader develop a basic understanding of various types of Motors utilized in the Unit Handling Industries, such as: Learn the latest EISA motor requirements, plus next five years efficiency requirements, Understand various types of motors in Unit Handling Applications and their unique characteristics; Definitions/ explanations used within the industry for motors, brakes, clutches, and encoders; Clarify common mounting position types, dimensions, and NEMA insulation classes.
- **Chapter #26, Gearing**—This chapter is designed to assist the reader in understanding Gearing, such as: Learn about common gear unit types and systems; Become familiar with gear unit configurations, mounting options, shaft options, and shaft connection methods; Understand how to make a proper gear unit selection based upon type of application, duty cycle and applied load conditions; Learn about common gear reducer accessories, motor types used and basics of proper gear unit installation and maintenance.
- **Chapter #28, Chains and Chain Drives**—This chapter will assist a reader with the basic understanding of Roller Chains and Engineering Class Chains, such as: Learn how a chain is constructed; Gain insights on chain benefits and features; Demystify the ANSI Chain Numbering System using detailed examples; Understand what is needed to design a drive system; Discover technical aspects of the drive selection process; Examples of sprockets types and bushings; Learn basics of chain maintenance.
- **Chapter #29, Mounted Bearings**—This chapter will assist a reader with the basic understanding of Mounted Bearings, such as: Learn benefits and features of each type; Definition of L10 life and proper method for calculating it; Learn proper commercial shaft tolerances for optimum fit-up into various bearing sizes; Various types of bearing caps utilized are shown, additional safety protocols are requiring limited personnel access to rotating parts of a bearing.

- **Chapter #30, Pulleys**—This chapter will assist a reader with the basic understanding of Pulleys, such as: Learn how a pulley or roller are constructed and basics of shaft design using stress and deflection limits; Gain insights into ANSI/CEMA B105.1 Pulley Standard; Understand the different crown configurations that are commonly available; See examples of typical take-up systems.
- **Chapter #31, Belt Technology**—This chapter will assist a reader with the basic understanding of Belt Technology, such as: Understanding common classifications and terminology of light conveyor belting; Recognize general belt constructions and typical nomenclature; Know what conveyor and application criteria are required to properly select a conveyor belt and be cognizant of various belt fabrication options.
- **Chapter #33, Conveyor Rollers**—This chapter will assist a reader with the basic understanding of Flat Top Chain, such as: Learn how a Conveyor Roller is constructed; Identification of Standard Axles and design, details of bearing styles, materials and uses; Application and considerations in Roller Design; Understanding Conveyor Roller Life and load Ratings, standards definitions; Material, environmental, and safety considerations in conveyor roller selection; Industry Standard Speeds and Noise levels of Conveyor Rollers.
- **Chapter #34, Wire Belting**—This chapter will assist a reader with the basic understanding of Wire Belting, such as: Learn basic nomenclature used to describe and specify wire belts; Typical wire belt construction and standard accessories; Insights on belt applications and belt selection criteria; Chain drive belts using woven metal mesh; Basic belt tension calculations, belt maintenance and installation guidelines; and Belt troubleshooting.