Volts' Features and Benefits

VOLTS™ electrical design software is a comprehensive suite of integrated modules that produces fast, accurate designs. All computations are compliant with IEEE 141, 241, 242 and NEC® standards.

VOLTS'™ computing engine dynamically displays voltage drop and actual real power values and many user defined variables which are updated with every addition or modification to the software.

Features and Benefits

- By using VOLTS™, you will gain control over the electrical design process and make your business more efficient, productive and profitable.
- Your learning curve is minimized by VOLTS™ Easy to Use Data Entry - Intuitive Interface - drop down lists with standardized industry data. This comprehensive interface facilitates fundamental computations to highly specific and defined analysis.
- Your electrical engineer's efficiency will be dramatically increased by automating repetitive and time-consuming tasks associated with the electrical design process.
- VOLTS™ software enables you to standardize your company's electrical design process across all projects.
- You will be able to communicate and manage design data more effectively.
- The power of automating the tedious task of creating One-Line Riser Diagrams, Panel Schedules, Feeder Schedules, Load Summaries, user defined reports, etc. saves you precious time with VOLTS™ electrical design software.
- In comparison to the manual design process, VOLTS™ electrical design software minimizes or eliminates frustrating errors.
- VOLTS™ increases design productivity and supporting documentation quality.
- Your ability to accommodate the dynamics of the electrical design process by interactively adding, deleting or modifying branch circuit devices and/or conductors & cables is significantly improved with VOLTS™ software.
- VOLTS™ features over 300 supported IEEE and NEC® tables, specifications and requirements.
- You will quickly copy & paste Panel Schedules, Feeder Schedules, NEC® 220 Load Summary, and other electrical design data from our MS Excel® export feature.
- Most reports are exportable to AutoCAD®, Visio®, Turbo CAD®, and other programs from our CAD DXF export format.
- We care about your experience as a VOLTS™ user and develop enhancements based on client feedback.

Computing - Integrated Modules

Branch Circuit Load Calculations	Motor Startup Amperage	Unit Conversions
Cable Tray Fill	Ohm’s Law	User Defined Defaults
Circuit Load Analysis	Power Factor	NEC® Specification Pages
Conduit Fill	Power Factor Correction	NEC® Usage Examples
Device and Metal Box Fill	PF and Phase Angle Offset	Utility Transformer Values
Efficiency Factor	Resistor Color Codes	Wireway Fill

Junction, Pull Box & Conduit Body Fill

Series Voltage Drop

Motor Ampacity and Characteristics

Transformer Sizing

Databases - All Active

Cables Database

Device and Metal Boxes Database

Raceways Database

Cables Compound Reference

Fuses Database

Transformers Database

Circuit Breakers Database

Items Database

Wireways Database

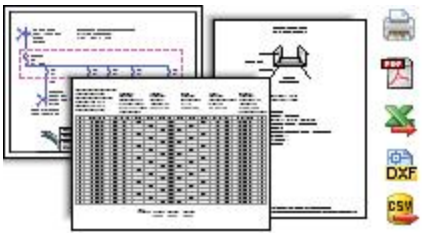
Conductors and Insulations

Junction and Pull Boxes Database

Conduit Bodies Database

Labels Database

Reporting



Volts' accurate and diverse computing is complemented by a complete array of comprehensive reports capable of printing, exporting to PDF, exporting to MS Excel® and exporting to CAD DXF. Additionally, some reports are exportable to a csv (comma separated values) for database inclusion.

Standard Reports

View a partial list of Volts' reports in PDF format.

Functionality

Arc Flash Analysis w/Labeling

Short Circuit Analysis

Circuit Layout

Surge Protection Analysis

One Line Riser Diagrams

Voltage Drop Formulae

Panel Schedules

Demonstrations

Help Movies - How to Do's These are audio/visual help movies

Volts Informative Brochure and Volts Presentation Downloads

Formulae in PDF formats -

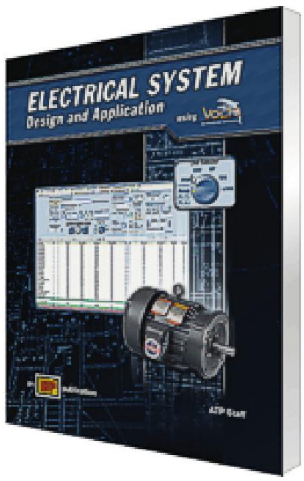
IEEE Exact Voltage Drop Formulae

Conductor Sizes

Ohm's Law with Power and Impedance SI Units

Step-By-Step Instruction Manual and Book

Electrical System Design and Application using Volts by American Technical Publishers



Electrical System Design and Application covers the fundamentals of electrical distribution system design by applying Volts™ using a clear, easy-to-follow, step by step approach. The text focuses on the most common Volts™ commands and command options to help the user become more productive quickly. *Electrical System Design and Application* is designed to address concepts required to efficiently create electrical distribution systems using Volts'™ powerful and accurate circuit load analysis module.