



ETAP Validation Cases and Comparison Results

ETAP is Verified and Validated (V&V) against field results, real system measurements, published cases, other programs, and third calculations in order to assess its technical accuracy. Prior to installation, to accompany the V&V of our software and capabilities, the ETAP Test Group will use test cases to the existing history of experience. In addition, the Test Group reviews all existing test cases, as part of our extensive and comprehensive V&V process.

In accordance with IEEE Quality Assurance Program, all procedures and activities related to the quality of ETAP software are subject to internal and external audits, including customer checks and ISO 9001 third certification assessments. Test cases are reviewed during the audit process.

The document includes:

Load Flow

Load Flow Comparison Case #1

Comparison of ETAP Load Flow Results against a Published Testbook Example

Load Flow Comparison Case #2

Comparison of Load Flow Results against a Published Example

Load Flow Comparison Case #3

Comparison of ETAP Load Flow Results against Published Testbook Examples

Short Circuit

Short-Circuit MVA Comparison Case #1

Comparison of Short-Circuit Results against Third Calculations based on Application Engineering Information

Short-Circuit MVA Comparison Case #2

Comparison of ETAP Calculated Short-Circuit Calculations against a Published Example

Short-Circuit MVA Comparison Case #3

Comparison of ETAP 3-Phase Only Short-Circuit Calculations against Published IEEE Std 399-1997 Example

Short-Circuit ISC Comparison Case #4

Comparison of ETAP Short-Circuit ISC Calculations against Published Example

Arc Flash

Arc Flash Comparison Case #1

Comparison of ETAP Arc Flash Results against third calculated results based on IEEE Testbook

Arc Flash Comparison Case #2

Verification of ETAP Arc Flash IEEE 158 results against third Calculations

Etap Reference Guide

A Gutmann



Etap Reference Guide:

The Top Books of the Year Etap Reference Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Etap Reference Guide : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/files/Resources/default.aspx/lives%20of%20my%20cat%20alfred.pdf>

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