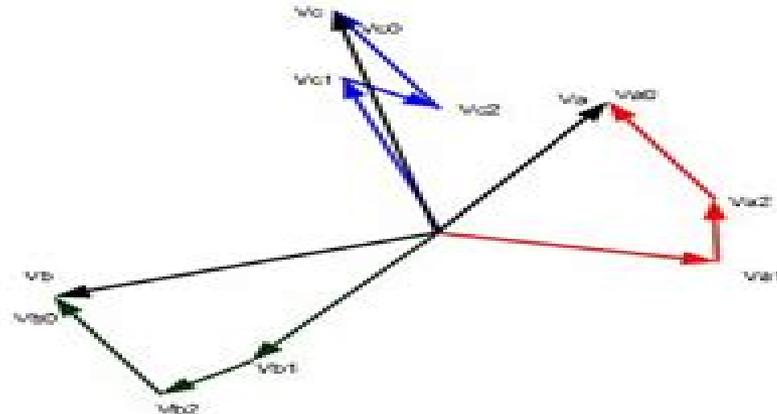


# An Introduction to Symmetrical Components, System Modeling and Fault Calculation



Presented at the

30<sup>th</sup> Annual  
**HANDS-ON** Relay School  
March 11 - 15, 2013

Washington State University  
Pullman, Washington

By Stephen Marx, and Dean Bender  
Bonneville Power Administration

# An Introduction To Symmetrical Components System Modeling

**Xiang Xie**



## **An Introduction To Symmetrical Components System Modeling:**

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**The Principles of Symmetrical Components** Charles A. Grover,1949

Electric Power Transmission System Engineering Turan Gönen,1988 This is a book for engineers involved with the mechanical design of electrical transmission systems It includes a review of transmission system engineering and the basics of analysis and then goes on to cover in detail topics such as the construction of overhead lines structural supports insulation requirements vibration sag and tension analysis right of way planning and methods of locating structures and underground cables Also included is material about cost analysis methods and techniques which are unique to transmission line design where fixed costs are shared among joint users In addition to this the development of system reliability reporting to conform to standard requirements is covered along with a modern comprehensive treatment of the design aspects of electrical power systems New topics of importance such as fault analysis system protection line balancing and economic analysis are contained with a brief review of analytical techniques which are pre requisites to designing a system or component

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*Annual Catalog - Lamar University College of Graduate Studies* Lamar University. College of Graduate Studies,1976

**Handbook of Electric Power Calculations** H. Wayne Beaty,2000-10-18 A bestselling calculations handbook that offers electric power engineers and technicians essential step by step procedures for solving a wide array of electric power problems This edition introduces a complete electronic book on CD ROM with over 100 live calculations 90% of the book s calculations Updated to reflect the new National Electric Code advances in transformer and motors and the new system design and operating procedures in the electric utility industry prompted by deregulation

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