

Electric Power Generation Transmission And Distribution The Electric Power Engineering Hbk Second Edition

Electric Power Transmission and Distribution
 Electric Power Engineering Handbook
 Power system stability and control
 An Overview of the Technology, the Marketplace, and Government Regulations
 Status, Prospects, and Impediments
 Current State, Problems and Perspectives
 America's Energy Future
 Enhancing the Resilience of the Nation's Electricity System
 Generation, Transmission & Distribution Made Simple
 Electric Power Generation, Transmission, and Distribution ; Eletrical Protective Equipment (29 CFR Part 1910).
 The Electric Power System
 Terrorism and the Electric Power Delivery System
 Electrical Power Systems
 Electric Power Research Trends
 Electric power generation, transmission, and distribution
 2020 Economic Crisis Impact on Revenues & Financials by Country
 Electricity from Renewable Resources
 Understanding Electric Power Systems
 Generation and Transmission of Electric Power
 Generation, Transmission, and Efficiency
 Aging and Life Extension Techniques, Second Edition
 Electric Power Generation, Transmission, and Distribution
 Product Values & Financials by Country
 Electric Power Generation, Transmission and Distribution
 Electricity Transmission
 Advances and Challenges Part B: Electrical Power
 Innovation for Development and Deployment of Increasingly Clean Electric Power Technologies
 Electric Power Generation, Transmission, and Distribution
 Technology and Transformation
 A Primer
 Electric Power System Basics for the Nonelectrical Professional
 Transmission, Distribution, and Renewable Energy Generation Power Equipment
 Alternatives to the Indian Point Energy Center for Meeting New York Electric Power Needs
 Electric Power Generation, Transmission & Distribution Revenues World Summary
 Electricity Transmission, Distribution and Storage Systems
 Electric Power Generation, Transmission, and Distribution - Electrical Protective Equipment (Us Occupational Safety and Health Administration Regulation) (Osha) (2018 Edition)
 Generation, Distribution and Utilization of Electrical Energy
 Electrical Safety
 The Power of Change

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 The Electric Power Engineering Hbk Second Edition*

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Electric Power Transmission and Distribution John Wiley & Sons

Since the September 11, 2001 terrorist attacks on the World Trade Center, many in the New York City area have become concerned about the possible consequences of a similar attack on the Indian Point nuclear power plants—located about 40 miles from Manhattan, and have made calls for their closure. Any closure, however, would require actions to replace the 2000 MW of power supplied by the plants. To examine this issue in detail, the Congress directed DOE to request a study from the NRC of options for replacing the power. This report presents detailed review of both demand and supply options for replacing that power as well as meeting expected demand growth in the region. It also assesses institutional considerations for these options along with their expected impacts. Finally, the report provides an analysis of scenarios for implementing the replacement options using simulation modeling.

Electric Power Engineering Handbook National Academies Press

Electric Power Transmission and Distribution is a comprehensive text, designed for undergraduate courses in power systems and transmission and distribution. A part of the electrical engineering curriculum, this book is designed to meet the requirements of students taking elementary courses in electric power transmission and distribution. Written in a simple, easy-to-understand manner, this book introduces the reader to electrical, mechanical and economic aspects of the design and construction of electric power transmission and distribution systems.

Power system stability and control Lulu Press, Inc

Featuring contributions from worldwide leaders in the field, the carefully crafted *Electric Power Generation, Transmission, and Distribution, Third Edition* (part of the five-volume set, *The Electric Power Engineering Handbook*) provides convenient access to detailed information on a diverse array of power engineering topics. Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. Topics covered include: Electric power generation: nonconventional methods Electric power generation: conventional methods Transmission system Distribution systems Electric power

utilization Power quality L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Saifur Rahman, Rama Ramakumar, George Karady, Bill Kersting, Andrew Hanson, and Mark Halpin present substantially new and revised material, giving readers up-to-date information on core areas. These include advanced energy technologies, distributed utilities, load characterization and modeling, and power quality issues such as power system harmonics, voltage sags, and power quality monitoring. With six new and 16 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover: Water Transmission Line Reliability Methods High Voltage Direct Current Transmission System Advanced Technology High-Temperature Conduction Distribution Short-Circuit Protection Linear Electric Motors A volume in the *Electric Power Engineering Handbook, Third Edition*. Other volumes in the set: K12648 *Power Systems, Third Edition* (ISBN: 9781439856338) K13917 *Power System Stability and Control, Third Edition* (ISBN: 9781439883204) K12650 *Electric Power Substations Engineering, Third Edition* (ISBN: 9781439856383) K12643 *Electric Power Transformer Engineering, Third Edition* (ISBN: 9781439856291).

An Overview of the Technology, the Marketplace, and Government Regulations CRC Press

For multi-user PDF licensing, please contact customer service. Energy touches our lives in countless ways and its costs are felt when we fill up at the gas pump, pay our home heating bills, and keep businesses both large and small running. There are long-term costs as well: to the environment, as natural resources are depleted and pollution contributes to global climate change, and to national security and independence, as many of the world's current energy sources are increasingly concentrated in geopolitically unstable regions. The country's challenge is to develop an energy portfolio that addresses these concerns while still providing sufficient, affordable energy reserves for the nation. The United States has enormous resources to put behind solutions to this energy challenge; the dilemma is to identify which solutions are the right ones. Before deciding which energy technologies to develop, and on what timeline, we need to understand them better. America's Energy Future analyzes the potential of a wide range of technologies for generation, distribution, and conservation of energy. This book considers technologies to increase energy efficiency, coal-fired power generation, nuclear power, renewable energy, oil and natural gas, and alternative transportation fuels. It offers a detailed assessment of the associated impacts and projected costs of implementing each technology and categorizes them into three time frames for implementation.

Status, Prospects, and Impediments Butterworth-Heinemann

This book presents new and important research on electric power and its generation, transmission and efficiency. The world is becoming increasingly electrified. For the foreseeable future, coal will continue to be the dominant fuel used for electric power production. The low cost and abundance of coal is one of the primary reasons for this. Electric power transmission, a process in the delivery of electricity to consumers, is the bulk transfer of electrical power. Typically, power transmission is between the power plant and a substation near a populated area. Electricity distribution is the delivery from the substation to the consumers. Due to the large amount of power involved, transmission normally takes place at high voltage (110 kV or above). Electricity is usually transmitted over long distance through overhead power transmission lines. Underground power transmission is used only in densely populated areas due to its high cost of installation and maintenance, and because the high reactive power gain produces large charging currents and difficulties in voltage management. A power transmission system is sometimes referred to colloquially as a "grid"; however, for reasons of economy, the network is rarely a true grid. Redundant paths and lines are provided so that power can be routed from any power plant to any load centre, through a variety of routes, based on the economics of the transmission path and the cost of power. Much analysis is done by transmission companies to determine the maximum reliable capacity of each line, which, due to system stability considerations, may be less than the physical or thermal limit of the line. Deregulation of electricity companies in many countries has led to renewed interest in reliable economic design of transmission networks.

Current State, Problems and Perspectives CRC Press

The revised edition presents, extends, and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made. New sections in the second edition summarize the issues of the aging, reliability, and safety of electrical apparatus, as well as supporting equipment in the field of generating renewable energy (solar, wind, tide, and wave power). When exposed to atmospheric corrosive gases and fluids, contaminants, high and low temperatures, vibrations, and other internal and external impacts, these systems deteriorate; eventually the ability of the apparatus to function properly is destroyed. In the modern world of "green energy", the equipment providing clean, electrical energy needs to be properly maintained in order to prevent premature failure. The book's purpose is to help find the proper ways to slow down the aging of electrical apparatus, improve its performance, and extend the life of power generation, transmission, and distribution equipment.

America's Energy Future Springer

Featuring contributions from worldwide leaders in the field, the carefully crafted Electric Power Generation, Transmission, and Distribution, Third Edition (part of the five-volume set, The Electric Power Engineering Handbook) provides convenient access to detailed information on a diverse array of power engineering topics. Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. Topics covered include: Electric power generation: nonconventional methods Electric power generation: conventional methods Transmission system Distribution systems Electric power

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CRC Press

Electricity, supplied reliably and affordably, is foundational to the U.S. economy and is utterly indispensable to modern society. However, emissions resulting from many forms of electricity generation create environmental risks that could have significant negative economic, security, and human health consequences. Large-scale installation of cleaner power generation has been generally hampered because greener technologies are more expensive than the technologies that currently produce most of our power. Rather than trade affordability and reliability for low emissions, is there a way to balance all three? The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies considers how to speed up innovations that would dramatically improve the performance and lower the cost of currently available technologies while also developing new advanced cleaner energy technologies. According to this report, there is an opportunity for the United States to continue to lead in the pursuit of increasingly clean, more efficient electricity through innovation in advanced technologies. The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies makes the case that America's advantages—world-class universities and national laboratories, a vibrant private sector, and innovative states, cities, and regions that are free to experiment with a variety of public policy approaches—position the United States to create and lead a new clean energy revolution. This study focuses on five paths to accelerate the market adoption of increasing clean energy and efficiency technologies: (1) expanding the portfolio of cleaner energy technology options; (2) leveraging the advantages of energy efficiency; (3) facilitating the development of increasing clean technologies, including renewables, nuclear, and cleaner fossil; (4) improving the existing technologies, systems, and infrastructure; and (5) leveling the playing field for cleaner energy technologies. The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies is a call for leadership to transform the United States energy sector in order to both mitigate the risks of greenhouse gas and other pollutants and to spur future economic growth. This study's focus on science, technology, and economic policy makes it a valuable resource to guide support that produces innovation to meet energy challenges now and for the future.

Enhancing the Resilience of the Nation's Electricity System CRC Press

This book provides the short history, current state, main problems and historical perspective for the development of electrical power engineering. The focus of the textbook is on the two most important issues related to meeting of the growing needs of humanity in electricity: "Hunger for energy" and "Ecological infarct". In the book are discussed the methods of their solution: optimization of energy balance, use of renewable energy resources, new methods of electricity production, increase of the efficiency of production, accumulation, transmission, distribution and consumption electricity. The third issue – social and geopolitical threats due to the increasing need for energy – in the textbook is not considered inasmuch it details in non-stop regime discussed in the mass media. Choosing the structure and content of the textbook is based on the ten years of the author experience of giving lectures to Tomsk Polytechnic University students who study according to the program Electric Power Engineering. This textbook is addressed to students, masters and post-graduates. It can be interesting for everyone who is thinking about the future of our civilization, in general, and meeting of human needs in electric power, in particular. *Generation, Transmission & Distribution Made Simple* CRC Press

Electrical Power Systems provides comprehensive, foundational content for a wide range of topics in power system operation and control. With the growing importance of grid integration of renewables and the interest in smart grid technologies it is more important than ever to understand the fundamentals that underpin electrical power systems. The book includes a large number of worked examples, and questions with answers, and emphasizes design aspects of some key electrical components like cables and breakers. The book is designed to be used as reference, review, or self-study for practitioners and consultants, or for students from related engineering disciplines that need to learn more about electrical power systems. Provides comprehensive coverage of all areas of the electrical power system, useful as a one-stop resource Includes a large number of worked examples and objective questions (with answers) to help apply the material discussed in the book Features foundational content that provides background and review for further study/analysis of more specialized areas of electric power engineering *Electric Power Generation, Transmission, and Distribution ; Electrical Protective Equipment (29 CFR Part 1910)*. CRC Press

A component in the America's Energy Future study, Electricity from Renewable Resources examines the technical potential for electric power generation with alternative sources such as wind, solar-photovoltaic, geothermal, solar-thermal, hydroelectric, and other renewable sources. The book focuses on those renewable sources that show the most promise for initial commercial deployment within 10 years and will lead to a substantial impact on the U.S. energy system. A quantitative characterization of technologies, this book lays out expectations of costs, performance, and impacts, as well as barriers and research and development needs. In addition to a principal focus on renewable energy technologies for power generation, the book addresses the challenges of incorporating such technologies into the power grid, as well as potential improvements in the national electricity grid that could enable better and more extensive utilization of wind, solar-thermal, solar photovoltaics, and other renewable technologies.

The Electric Power System John Wiley & Sons

Electricity transmission and distribution systems carry electricity from suppliers to demand sites. During transmission materials ageing and performance issues can lead to losses amounting to about 10% of the total generated electricity. Advanced grid technologies are therefore in development to sustain higher network efficiency, while also maintaining power quality and security. Electricity transmission, distribution and storage systems presents a comprehensive review of the materials, architecture and performance of electricity transmission and distribution networks, and the application and integration of electricity storage systems. The first part of the book reviews the fundamental issues facing electricity networks, with chapters discussing Transmission and Distribution (T&D) infrastructure, reliability and engineering, regulation and planning, the protection of T&D networks and the integration of distributed energy resources to the grid. Chapters in part two review the development of transmission and distribution system, with advanced concepts such as FACTS and HVDC, as well as advanced materials such as superconducting material and network components. This coverage is extended in the final section with chapters reviewing materials and applications of electricity storage systems for use in networks, for renewable and distributed generation plant, and in buildings and vehicles, such as batteries and other advanced electricity storage devices. With its distinguished editor, Electricity transmission, distribution and storage systems is an essential reference for materials and electrical engineers, energy consultants, T&D systems designers and technology manufacturers involved in advanced transmission and distribution. Presents a comprehensive review of the materials, architecture and performance of electricity transmission and distribution networks Examines the application and integration of electricity storage systems Reviews the fundamental issues facing electricity networks and examines the development of transmission and distribution systems *Terrorism and the Electric Power Delivery System* Oxford University Press

The Electric Power Generation, Transmission & Distribution Revenues World Summary Paperback Edition provides 7 years of Historic & Current data on the market in up to 100 countries. The Aggregated market comprises of the 15 Products / Services listed. The Products / Services covered (Electric power generation, transmission, & distribution Lines) are classified by the 5-Digit NAICS Product Codes and each Product and Services is then further defined by each 6 to 10-Digit NAICS Product Codes. In addition full Financial Data (188 items: Historic & Current Balance Sheet, Financial Margins and Ratios) Data is provided for about 100 countries. Total Market Values are given for 15 Products/Services covered, including: ELECTRIC POWER GENERATION - TRANSMISSION + DISTRIBUTION REVENUES 1. Electric Power Generation, Transmission & Distribution Lines 2.

Sales of products from natural gas, incl propane & butane 3. Household appliance sales 4. Sales of other merchandise 5. Pipeline transportation of natural gas 6. Electricity: generation and distribution sales 7. Electricity: power marketing and brokering sales 8. Natural gas distribution to final consumer 9. Natural gas-power marketing and brokering sales 10. Mixed, manufactured, or liquefied gas sales 11. Steam or air-conditioning sales 12. Water sales 13. Electric power transmission 14. Irrigation system user charges 15. Sewer system user charges 16. All other operating revenue There are 188 Financial items covered, including: Total Sales, Pre-tax Profit, Interest Paid, Non-trading Income, Operating Profit, Depreciation: Structures, Depreciation: P + E, Depreciation: Misc., Total Depreciation, Trading Profit, Intangible Assets, Intermediate Assets, Assets: Structures, Assets: P + E, Total Fixed Assets, Capital Expenditure: (Structures, P + E, Vehicles, Data Processing, Misc.), Total Capital Expenditure, Retirements: Structures, Retirements: P + E, Retirements: Misc., Total Retirements, Total Fixed Assets, Finished Product Stocks, Work in Progress, Materials as Stocks, Total Stocks / Inventory, Debtors, Maintenance Costs, Services Purchased, Total Current Assets, Total Assets, Creditors, Short Term Loans, Total Current Liabilities, Net Assets / Capital Employed, Shareholders Funds, Long Term Loans, Long Term Liabilities, Workers, Hours Worked, Employees, Raw Materials, Finished Materials, Fuel, Electricity, Total Input Supplies / Materials + Energy Costs, Payroll Costs, Wages, Director Remunerations, Employee Benefits, Employee Commissions, Total Employees Remunerations, Sub Contractors, Rental & Leasing: Structures, Rental & Leasing: P + E, Total Rental & Leasing Costs, Maintenance: Structures, Maintenance: P + E, Communications Costs, Misc. Expenses, Sales Personnel Variable Costs, Sales Expenses, Sales Materials Costs, Total Sales Costs, Distribution Fixed + Variable Costs, Premises Fixed Costs, Premises Variable Costs, Physical Handling Fixed + Variable Costs, Physical Process Fixed + Variable Costs, Distribution Costs, Media Advertising, Advertising Materials, POS & Display, Events, Advertising Costs, Product Handling, Product Support, Product Service, Customer Problem Costs, After-Sales Costs, Marketing Costs, New Technology + Production Technology Expenditure, Research + Development Expenditure, Operational & Process Costs, Debtors (Terms + Un-recoverable). /.. etc.

Electric Power Systems Electric Power Generation, Transmission, and Distribution, Third Edition Electric Power Generation, Transmission, and Distribution, Third Edition CRC Press
Electric Power Research Trends PHI Learning Pvt. Ltd.

The global, regional, and local energy landscape has changed dramatically in the twenty-first century. Many factors have affected what we know about energy: a consensus among scientists on climate change and related support for renewable energy, evolving energy and resource extraction technologies, growing resource demand in the developing world, new regional and global energy governance actors, new major fossil fuel discoveries on land and underwater in states that have previously been under-resourced, rising interest in corporate social responsibility in energy companies, and the need for energy justice. The Oxford Handbook of Energy Politics synthesizes the diverse literature on these topics to provide a foundational resource for teaching and research on critical energy issues in international relations and comparative politics. Through chapters authored by both scholars and practitioners, the Handbook further develops the energy politics scholarship and community, and generates sophisticated new work that will benefit all who work on energy issues.

Electric power generation, transmission, and distribution National Academies Press
The world is becoming increasingly electrified. For the foreseeable future, coal will continue to be the dominant fuel used for electric power production. The low cost and abundance of coal is one of the primary reasons for this. Electric power transmission, a process in the delivery of electricity to

consumers, is the bulk transfer of electrical power. Typically, power transmission is between the power plant and a substation near a populated area. Electricity distribution is the delivery from the substation to the consumers. Due to the large amount of power involved, transmission normally takes place at high voltage (110 kV or above). Electricity is usually transmitted over long distance through overhead power transmission lines. Underground power transmission is used only in densely populated areas due to its high cost of installation and maintenance, and because the high reactive power gain produces large charging currents and difficulties in voltage management. A power transmission system is sometimes referred to colloquially as a "grid"; however, for reasons of economy, the network is rarely a true grid. Redundant paths and lines are provided so that power can be routed from any power plant to any load centre, through a variety of routes, based on the economics of the transmission path and the cost of power. Much analysis is done by transmission companies to determine the maximum reliable capacity of each line, which, due to system stability considerations, may be less than the physical or thermal limit of the line. Deregulation of electricity companies in many countries has led to renewed interest in reliable economic design of transmission networks. This new book presents leading-edge research on electric power and its generation, transmission and efficiency.

2020 Economic Crisis Impact on Revenues & Financials by Country National Academies Press
Featuring contributions from worldwide leaders in the field, the carefully crafted *Electric Power Generation, Transmission, and Distribution, Third Edition* (part of the five-volume set, *The Electric Power Engineering Handbook*) provides convenient access to detailed information on a diverse array of power engineering topics. Updates to nearly every chapter keep this book at the forefront of developments in modern power systems, reflecting international standards, practices, and technologies. Topics covered include: Electric power generation: nonconventional methods Electric power generation: conventional methods Transmission system Distribution systems Electric power utilization Power quality L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Saifur Rahman, Rama Ramakumar, George Karady, Bill Kersting, Andrew Hanson, and Mark Halpin present substantially new and revised material, giving readers up-to-date information on core areas. These include advanced energy technologies, distributed utilities, load characterization and modeling, and power quality issues such as power system harmonics, voltage sags, and power quality monitoring. With six new and 16 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New chapters cover: Water Transmission Line Reliability Methods High Voltage Direct Current Transmission System Advanced Technology High-Temperature Conduction Distribution Short-Circuit Protection Linear Electric Motors A volume in the *Electric Power Engineering Handbook, Third Edition*. Other volumes in the set: K12648 *Power Systems, Third Edition* (ISBN: 9781439856338) K13917 *Power System Stability and Control, Third Edition* (ISBN: 9781439883204) K12650 *Electric Power Substations Engineering, Third Edition* (ISBN: 9781439856383) K12643 *Electric Power Transformer Engineering, Third Edition* (ISBN: 9781439856291)

Electricity from Renewable Resources CRC Press

The book consists from two parts: • Lecture Notes of Generation of Electrical Power Course • Lecture Notes of Electric Power Transmission Course 1. Part A: Lecture Notes of Generation of Electrical Power Course Part A includes my lecture notes for electrical power generation course. The layout, main components, and characteristics of common electrical power generation plants are described with application to various thermal power plants. Part A is divided to different learning outcomes • LO 1- Describe the layout of common electrical power generation plants. • LO

2- Describe the main components and characteristics of thermal power plants. 2. Part B: Lecture Notes of Electrical Power Transmission Course Part B includes my lecture notes for electrical power transmission course. The power transmission process, from generation to distribution is described and expressions for resistance, inductance and capacitance of high-voltage power transmission lines are developed used to determine the equivalent circuit of a three-phase transmission line. Part B is divided to different learning outcomes • LO1- Describe the power transmission process, from generation to distribution. • LO2- Develop expressions for resistance, inductance and capacitance of high-voltage power transmission lines and determine the equivalent circuit of a three-phase transmission line.

Understanding Electric Power Systems New Age International

Electric Power Generation, Transmission, and Distribution - Electrical Protective Equipment (US Occupational Safety and Health Administration Regulation) (OSHA) (2018 Edition) The Law Library presents the complete text of the *Electric Power Generation, Transmission, and Distribution - Electrical Protective Equipment (US Occupational Safety and Health Administration Regulation) (OSHA) (2018 Edition)*. Updated as of May 29, 2018 OSHA last issued rules for the construction of transmission and distribution installations in 1972. Those provisions are now out of date and inconsistent with the more recently promulgated general industry standard covering the operation and maintenance of electric power generation, transmission, and distribution lines and equipment. OSHA is revising the construction standard to make it more consistent with the general industry standard and is making some revisions to both the construction and general industry requirements. The final rules for general industry and construction include new or revised provisions on host employers and contractors, training, job briefings, fall protection, insulation and working position of employees working on or near live parts, minimum approach distances, protection from electric arcs, deenergizing transmission and distribution lines and equipment, protective grounding, operating mechanical equipment near overhead power lines, and working in manholes and vaults. The revised standards will ensure that employers, when appropriate, must meet consistent requirements for work performed under the construction and general industry standards. This book contains: - The complete text of the *Electric Power Generation, Transmission, and Distribution - Electrical Protective Equipment (US Occupational Safety and Health Administration Regulation) (OSHA) (2018 Edition)* - A table of contents with the page number of each section

Generation and Transmission of Electric Power Pearson Education India

« This book gives nonelectrical professionals a fundamental understanding of large interconnected electrical power systems, better known as the «power grid,» with regard of terminology, electrical concepts, design considerations, construction practices, industry standards, control room operations for both normal and emergency conditions, maintenance, consumption, telecommunications and safety. The text begins with an overview of the terminology and basic electrical concepts commonly used in the industry then it examines the generation, transmission and distribution of power. Other topics discussed include energy management, conservation of electrical energy, consumption characteristics and regulatory aspects to help readers understand modern electric power systems. This second edition features : new sections on renewable energy, regulatory changes, new measures to improve system reliability, and smart technologies used in the power grid system; updated practical examples, photographs, drawing, and illustrations to help the reader gain a better understanding of the material; optional supplementary reading sections within most chapters to elaborate on certain concepts by providing additional detail or background. »--

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