PRACTICAL GUIDE TO

# POWER FACTOR CORRECTION AND HARMONICS...

AND YOUR ELECTRIC BILL



# <u>Practical Guide To Power Factor Correction And</u> <u>Harmonicsand Your Electric Bill</u>

**Clemens Wendtner** 

#### Practical Guide To Power Factor Correction And Harmonics and Your Electric Bill:

Power System Fundamentals Pedro Ponce, Arturo Molina, Omar Mata, Luis Ibarra, Brian MacCleery, 2017-12-04 Smart grids are linked with smart homes and smart meters. These smart grids are the new topology for generating distributing and consuming energy If these smart devices are not connected in a smart grid then they cannot work properly hence the conventional power systems are swiftly changing in order to improve the quality of electrical energy This book covers the fundamentals of power systems which are the pillars for smart grids with a focus on defining the smart grid with theoretical and experimental electrical concepts Power System Fundamentals begins by discussing electric circuits the basic systems in smart grids and finishes with a complete smart grid concept The book allows the reader to build a foundation of understanding with basic and advanced exercises that run on simulation before moving to experimental results It is intended for readers who want to comprehensively cover both the basic and advanced concepts of smart grids Lighting Design + Power Factor Correction Albert Edmund Clayton, 1921 **Industrial Power Factor Analysis** Guidebook, 1995 Power factor is a way of measuring the percentage of reactive power in an electrical system Reactive power represents wasted energy electricity that does no useful work because the electrical current is out of phase with the voltage Reactive power is used by inductive loads such as motors transformers fluorescent lights arc welders and induction furnaces to sustain their magnetic fields Electric systems with many motors exhibit low power factors increased conductor and transformer losses and lower voltages Utilities must supply both active and reactive power and compensate for these losses Power factor can be improved by the addition of shunt capacitors Capacitors act in opposition to inductive loads thereby minimizing the reactive power required to serve them In raising the power factor shunt capacitors release energy to the system reduce system losses and ultimately decrease power costs Improving system power factor can reduce reactive and active power losses for both industry and utilities through the addition of shunt capacitors This Guide Book gives electric utility technical staff industrial end users consultants and BPA employees a step by step method for evaluating the cost effectiveness of installing power factor correction capacitors in an industrial plant Power Factor Correction ,2014

Power Factor Correction Albert Edmund Clayton, 2014-02 This is a reproduction of a book published before 1923 This book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process We believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide We appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book The below data was compiled from various identification fields in the bibliographic record of this title This data is provided as an additional tool in helping to ensure edition identification Power Factor Correction Explaining The Meaning And Importance Of Power Factor And Describing Methods For The Improvement Of Power Factor Volume 24 Of

Pitman s Technical Primer Series Albert Edmund Clayton Sir I Pitman Power Resources Electrical Electric currents Alternating Electric power distribution Technology Technology Engineering Power Resources Electrical Power Factor Power Factor Correction Albert E. Clayton, 1927 **Power Factor Correction** Loretta Bussiere, Ken Barker, Edie Boynton, Florida. Governor's Energy Office, 198? **Electrical Power Factor** Joseph Mendez, James Zimmerhoff, 2017-08-15 What is Power Factor Is the ratio of the actual electrical power dissipated by an AC circuit to the output of the RMS root mean square values of current and voltage The difference between the two is caused by reactance in the circuit and represents power that does no useful work To understand power factor well first start with the definition of some basic terms Power is measured in Watts Volts X Amps X Power Factor Watts Watts only equals Volts X Amps when the Power Factor is 1 Most of the time the Power Factor is less than 1 Power Watts True Power Volts X Amps VA Apparent Power K added before these means kilo or 1 000 times the number 1 KV 1 000 V KW is Working Power also called Actual Power or Active Power or Real Power It is the power that powers the equipment and performs useful work KVAR is Reactive Power It is the power that magnetic devices transformer motor and relay needs to produce the magnetizing flux KVA is Apparent Power It is the vectorial summation of KW and KVAR Today's industrial commercial retail and even domestic premises are frequently populated by electronic devices such as PCs servers monitors and photocopiers that are habitually powered by switched mode power supplies SMPS If not properly planned these can present nonlinear loads which impose harmonic currents and possibly voltages onto the mains power network If this cup of beer is your electrical bill the liquid is what you use KW the foam is the reactive load KVAR but you pay for the apparent usage KVA Harmonics can hurt cabling and equipment within this network also as other equipment connected to it Difficulties include overheating and fire risk high voltages and circulating currents equipment malfunctions and component failures and other possible consequences A nonlinear load is subject to generate these harmonics if it has a lower power factor Other devices can lower the power factors without creating harmonics. This post looks at these issues the circumstances that can lead to damaging harmonic generation and practical approaches to reducing it Power Factor P F is the ratio of Working Power to Apparent Power Looking at our beer mug analogy above power factor would be the ratio of beer KW to beer plus foam KVA KVA VA x 1 000 P F KW KVA Cos Q KVAR KVA Sin Q KVA v KW2 KVAR2 KV I v3 **Power Factor Correction** Albert Edmund Clayton, 1921 Power-factor Wastes Charles Reginald Underhill,1926 Power Factor Correction ,2014 **Power Factor Correction** Albert Edmund Clayton, 1934 2020, Power Factor Correction A Study of Power Factor Costs and Methods of

Albert Edmund Clayton,1934 Power Factor Correction ,2020 A Study of Power Factor Costs and Methods of Correction Herbert A. Murphy,1931 POWER FACTOR CORRECTION and HARMONIC FILTERS AT THE AGS., ,1995 Power-factor Correction Westinghouse Electric Corporation,1925 A Study of Power Factor Correction Edward Pugh Price,1923 Analysis of Power Factor Correction Converters Thomas Yeh,1992 Power Converter with capacitive input filter is a non linear load to the Utility AC power lines There are widely used as Switch Mode Power Supplies

in office equipment applications ranging from Personal Computers to Office Printers and Copiers The distorted input current waveform extracted by the capacitive input filter of the power converters produces unwanted harmonics which propagates to other line powered equipments The harmonic pollutes the AC lines and interferes with the operations of sensitive line powered equipments The distorted current waveform also leads to inefficient utilization of the available power from the AC outlet This is because the AC line power is transferred to the load only when each frequency component of the line voltage is an in phase scaler related quantity with respect to the same frequency component of the extracted current The problems of poor power factor and harmonic distortion are compounded by the proliferation of Switch Mode power supplies and the situation is rapidly becoming intolerable The problem of poor quality input current waveform can be described by two quantitative measurements Power Factor pf and Total Harmonic Distortion thd Two general approaches are available to remedy the problem One approach is to install passive filter networks between the Utility AC lines and the capacitive input filter The second approach is to design active power processors as dedicated Power Factor Correction pfc Converters and installed as the front end to the capacitive input filter to shape the distorted current waveform into waveforms which will yield higher power factor This Thesis first introduce the general concept of PF and harmonic distortion in Chapter 1 Chapter 2 derive the mathematical description of pf based on the concept of real power pR and apparent power pA Both sinusoidal and nonsinusoidal cases are studied For comparison and completeness two popular passive power factor correction filter networks are analyzed in Chapter 3 to derive the maximum achievable power factor for each network along with the corresponding harmonic distortions Governing equations are derived and presented graphically as a function of the filter network and load parameters Chapter 4 provides the analysis of active power factor correction using switch mode Boost Converter The analysis is carried out for two types of current controllers used as the current modulators for current waveform shaping The state space averaged modeling approach is employed to derive the mathematical model of the Boost Converter suitable for large signal time domain and small signal frequency domain analysis The model is further extended to derive the describing equations for the Boost Converter operating as pfc converter Characteristics of the two current controller functions impacting the pfc operation are studied to expose their relative strength and limitations The analysis includes the supplementation of the current control loop by an outer voltage control loop to regulate the output capacitor voltage of the pfc converter The large signal analysis is first investigated for PF waveform quality and voltage regulation The small signal analysis follows to extract the frequency domain behavior of the pfc Boost Converter The limitation of the voltage control bandwidth and its effect on the achievable pf is discussed Chapter 5 verified the analysis through computer simulation using PSPICE The original works of Bello based on Berkeley SPICE are modified for PSPICE The models are extended to implement the PFC control functions and simulated in both large signal time domain and small signal frequency domain Both the analysis and computer simulation results are compared to a published design of pfc Converter Abstract

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