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Parallel Operation of  
Synchronous Machines  
Forgotten Books  
Excerpt from Study of  
Cost of Machines: Thesis  
for the Degree of

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Bachelor of Science in Electrical Engineering; College of Engineering, University of Illinois, 1912 Material2. Costs of the various items which are involved in the manufacture of machines are so dependent upon the types of specific design that a comprehensible discussion of them can not be given. Commercial designers, however, are responsible for manufacture of machines which are as inexpensive as is consistent with

satisfactory Operation. However with machines of given speed and output, while the detail cost for labor and material may vary widely in different cases, the total costs are not very different. As is shown in the above graphic diagram, the price of a machine must exceed the total cost by the amount sufficient to include the profit. The profit depends upon the size of the sale made and the rebate given to the customers. The rebate may vary

according to the circumstances and conditions under which the sale was made. Therefore the costs mean, in this paper, the selling price, obtained from different builders. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses

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Power System Loads and  
Power System Stability  
Forgotten Books  
Excerpt from Testing  
Electrical Railway Bonds:  
Thesis for the Degree of  
Bachelor of Science in  
Electrical Engineering;  
College of Engineering,  
University of Illinois,  
Presented June, 1907  
Experiments. The first  
experiment was conducted to  
deter mine whether the  
current flowing thru the rails  
from the cars Operating  
would cause a drop in a good  
track great enough within the

car length, to be measured with  
an ordinary milli-voltmeter.  
Apparatus was constructed as  
shown in Figs. And 3. Two  
strap irons, L, were bolted to  
the side bar of the truck. These  
were bent back under the  
truck and an oak board, 0  
bolted to their lower ends over  
the rail. Angle irons R, were  
bolted to the board and set  
screws thru these held the  
brushes in place. The brushes  
were constructed by cutting  
#20 steel wire into lengths of 3  
and soldering them together at  
one end, as shown in Fig. 3.  
Two of these brushes, A and

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C, (fig. 1) About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast

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Power Measurements Under Nonsinusoidal Conditions

Forgotten Books  
Excerpt from Behavior of a Rotor in a Two-Phase Field:  
Thesis for the Degree of Bachelor of Science in Electrical Engineering in the College of Engineering, University of Illinois, Presented June, 1901 Extremely light weight, 250 pounds rated, for maximum power Which it was found capable of developing.  
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Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such

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historical works.

Electrical

Engineering Forgotten  
Books

Excerpt from Parallel  
Operation of

Synchronous Machines:

Thesis for Degree of  
Electrical Engineer

in Electrical

Engineering; College

of Engineering,

University of

Illinois; Presented

June, 1907 Equality

of frequency is taken

to mean that the

machines must Operate

together at the same

frequency without  
excessive strains,

either mechanical or  
electrical, upon

them. Unless this  
condition exists, the

machines can never be  
made to Operate sat

isfactorily together.

The condition of

inuequality of

frequency is that

which occurs when two  
machines are 'belted

to the same line

shaft with pulley

ratios such that the

frequencies can never

be the same. If two

such machines are  
connected in parallel

a current will flow  
between them. This

current is a load  
cure rent, and will

load the machine of  
higher frequency to

such a point as to

supply sufficient

power to cause the

belts to slip; or the

motor action on the  
machine of lower

frequency will become

so great that it will

not hold in step, hut

will periodically

fall in and out of

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step as the vectors come together and again separate. Any such operation is, evidently, out of the question. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at <a href="http://www.forgottenbooks.com">www.forgottenbooks.com</a> This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct	the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to	preserve the state of such historical works. Wilkes Scheduler Springer Nature Excerpt from An Electrical Method for the Measurement of the Flow of Water: Thesis for the Degree of Bachelor of Science in Electrical Engineering in the College of Engineering, University of Illinois, 1916 The object of the experiments discussed in this thesis is to establish a relation between the heat lost by an element and the velocity of the water in which it is submerged. Such a relation has been found
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for air. In measuring the quantity of air flow ing in a pipe, it is necessary to pass it through some form of heat ing element. This element may be a wire heated by an electric current, or a coil of pipe through which hot water is allowed to flow. (see Figure No.1a). If the lattertype of element is used the heat lost by it is equal to  $W_0(t'$  where  $W_0$  is the weight of wa ter flowing through the heating coil per second, and  $t'$  and  $t$  are the initial and final temperatures. The heat gained by the air is equal to  $2375 W_a(t_2 t_1)$  where 237 is the specific heat of air at constant

pressure,  $W_3$  is the weight of air passing per second. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We

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Magnetism in Pt1Co1-xNix Alloys Forgotten Books

This thesis develops a pioneering methodology and a concept for identifying critical loads and load model parameters in large power networks based on their influence on power system stability. The research described in the thesis first develops an automatic load modelling tool (ALMT) that can be used to automatically build load model from actual measured power system data without

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human intervention and the benefits of the ALMY are explored. Secondly, it develops a pioneering framework based on Morris screening method for ranking power system load model parameters based on their influence on overall power system stability (voltage, frequency, transient and small disturbance stability) considering different load models and loading conditions. Thirdly, a novel probabilistic methodology for determining the accuracy levels of critical load model parameters has been developed. This book will be of interest to students and researchers within the field of electrical engineering, as well as industry professionals.

The Design of Quality of Service Web Forgotten Books  
Excerpt from Electrical Constants of Steel Cables:  
Thesis for the Degree of Bachelor of Science in Electrical Engineering  
For a number of years, it has been recognized that compound wires would have a variety of uses in the electrical industry. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-

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Electrical Constants of Steel Cables Forgotten Books

This thesis was written in 1991 in partial fulfillment of the requirements for a Master of



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Science degree in Electrical Engineering at Wilkes University, Wilkes-Barre, Pennsylvania, United States. The measurement method discussed can be used to determine if the distortion is from the source, or caused by the load. Abstract A method is described for measuring real power in instances where voltage and current waveforms are not pure sinusoids. The measurement system utilizes digitized time domain samples of both waveforms. The waveforms are then transformed into the discrete frequency domain where both amplitude and phase information are derived. This method can be used by electrical utility companies to survey harmonic content generated by

loads in a power system. It also lends itself to applications of spectral analysis where in addition to amplitude information, phase information is also relevant. Polysilicon Control Devices for Modern Power Semiconductors Forgotten Books Excerpt from Investigation and Design of a Power Plant for Mahomet, Illinois: Thesis for the Degree of Bachelor of Science in Electrical Engineering Mahomet, Illinois is a little village of eight hundred inhabitants, located ten miles west of Champaign on the Big Four

Railroad ° The occupations of the inhabitants consist mainly of the pursuits which are common to nearly all small places located in the farming communities in central Illinois, The various enterprises consist of blacksmithing, lumber yards, tile yard, stores, bank, etc. The fact that a bank is located there indicates that the people are somewhat prosperous; the brick and concrete sidewalks; the way the streets are kept and other municipal improvements, shows in general, that the

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people take an interest in their local affairs. There are also several well built dwellings occupied by retired farmers. The village school is one of modern type, There is no probability that the village will decrease in size, or that the land in the community will become less valuable. In fact this village was founded in the Eighteen Forties and has been steadily growing. The growth in the past has been slow, but steady without been or any great disasters, and it is safe to assume that its rate of

growth in the future will be much the same as in the past. About the Publisher  
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Improved Wafer-level  
RDSon Measurements  
Excerpt from Improved  
Operation of the Power  
Plant at the University of  
Illinois: Thesis for the  
Degree of Bachelor of  
Science in Electrical  
Engineering in the College

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of Engineering of the  
University of Illinois;  
Presented June, 1909 It has  
been the purpose in this  
thesis work to investigate the  
operating conditions, to study  
the methods and apparatus.  
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the state of such historical  
works.  
Improved Operation of the  
Power Plant at the  
University of Illinois  
Excerpt from Tests of

Household Electrical  
Appliances: Thesis Submitted  
in Partial Fulfillment of the  
Requirements for the Degree  
of Master of Science in  
Electrical Engineering, in  
Graduate School of the  
University of Illinois, 1909  
Since when electric energy is  
dissipated in a con ductor the  
only resultant energy noticed  
is heat, it is. About the  
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Electrical Reliability  
Improvement of Plastic  
Encapsulated Power MOSFET  
Discrete Devices

Thesis on Electrical Engineering

Electronics Laboratory Virtual  
Instrumentation

Testing Electrical Railway  
Bonds

Potential Stresses in  
Dielectrics

Investigation and Design of a  
Power Plant for Mahomet,  
Illinois

Electrical Materials  
Characterization Station

New Technology in the  
Television Broadcast Industry

Web Based Data Distribution  
Methods