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# Electrical Engineering Thesis

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A Thesis in Electrical Engineering  
New Technology in the Television Broadcast Industry  
A Thesis in Electrical Engineering  
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A Thesis in Electrical Engineering  
DNA Base-calling  
Low Power Wireless Data Communication and Vehicle Navigation System  
Electrical Materials Characterization Station  
Tests of Household Electrical Appliances  
Development of an User Inter-face Package : a Thesis in Electrical Engineering  
A Thesis in Electrical Engineering  
A Thesis in Electrical Engineering  
Improved Wafer-level RDSon Measurements  
A Tunable Diode Laser with External Cavity Design  
A Thesis in Electrical Engineering  
Thesis for the Degree of Bachelor of Science in Electrical Engineering in the College of Engineering, University of Illinois, 1916 (Classic Reprint)  
Thesis on Electrical Engineering  
Soliton Communications with Applications to Optical Switching  
Receiver Automatic Gain Control Utilizing a Digital Controller  
Training Circuit for Complex Valued Neuron  
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Computer Network Backbone Design in Upgrading NSFnet Backbone  
A Thesis in Electrical Engineering  
Electronics Laboratory Virtual Instrumentation  
Quasi-chaotic Lidar  
A Thesis in Electrical Engineering  
Electrical Reliability Improvement of Plastic Encapsulated Power MOSFET Discrete Devices  
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 (Classic Reprint)  
Wilkes Scheduler  
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A Thesis in Electrical Engineering  
Modeling and Designing of Micro-fluidic Sensor  
Design of Radio Frequency Power Amplifiers  
A Thesis in Electrical Engineering  
Parallel Processing and Its Application to Speech Recognition  
Magnetism in Pt<sub>1</sub>Co<sub>1-x</sub>Ni<sub>x</sub> Alloys  
Ellipsometry as a Measure of Refractive Index  
An Electrical Method for the Measurement of the Flow of Water

## DEANDRE KENDAL

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A Thesis in Electrical Engineering Magnetism in Pt<sub>1</sub>Co<sub>1-x</sub>Ni<sub>x</sub> Alloys  
A Thesis in Electrical Engineering Potential Stresses in Dielectrics  
A Thesis Submitted to the Electrical Engineering Dept. of the Massachusetts Institute of Technology  
Parallel Operation of Synchronous Machines  
Thesis for Degree of Electrical Engineer in Electrical Engineering; College of Engineering, University of Illinois; Presented June, 1907 (Classic Reprint)  
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### **New Technology in the Television Broadcast Industry**

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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 satisfactorily together. The condition of inequality 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 current, 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, but will periodically fall in and out of 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 [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 historical works.

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"This thesis attempts to solve the problem of base-calling by using pattern recognition, the act of classifying raw data based on prior or statistical information extracted from the data into various classes. In this thesis, two new frameworks are proposed using Artificial Neural Networks (ANN) and Polynomial Classifiers (PC) to model electropherogram traces."--Abstract, p. iii.

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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 conductor the only resultant energy noticed is heat, it is. 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 majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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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 for air. In measuring the quantity of air flowing in a pipe, it is necessary to pass it through some form of heating 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 latter type of element is used the heat lost by it is equal to  $W_0(t'$  where  $W_0$  is the weight of water 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, W3 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 do, however, repair the vast majority of imperfections successfully;

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### **A Thesis in Electrical Engineering**

*Improved Wafer-level RDSon Measurements*

### **A Tunable Diode Laser with External Cavity Design**

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