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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 311

LECTURE 10

Electromagnetic Induction

Faraday's Law of Induction

The induced electromotive force (EMF) in any closed circuit is equal to the negative of the time rate of change of the magnetic flux through the circuit.

$$\mathcal{E} = -\frac{d\Phi_B}{dt}$$

Induced EMF

Consider a rectangular loop of length l and width w in a uniform magnetic field B perpendicular to the plane of the loop. The magnetic flux through the loop is $\Phi_B = B \cdot A = B \cdot lw$. If the magnetic field changes with time, an induced EMF is generated in the loop.

For a loop with N turns, the induced EMF is $\mathcal{E} = -N \frac{d\Phi_B}{dt}$. This is the general form of Faraday's Law.

Induced EMF can be used to generate electricity. In a generator, a coil of wire is rotated in a magnetic field, causing the magnetic flux through the coil to change and inducing an EMF. This induced EMF drives a current through the coil, which can be used to power a load.

1875

Received of the Treasurer of the State of New York the sum of \$1000.00

for the purchase of the land in the town of ...

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very dry. The crops were
very poor, and the weather
was very hot.

The second of the year was a
very wet one, and the crops
were very good. The weather
was very cool, and the ground
was very wet. The crops
were very good, and the
weather was very cool.

The third of the year was a
very dry one, and the crops
were very poor. The weather
was very hot, and the ground
was very dry. The crops
were very poor, and the
weather was very hot.

The fourth of the year was a
very wet one, and the crops
were very good. The weather
was very cool, and the ground
was very wet. The crops
were very good, and the
weather was very cool.

The fifth of the year was a
very dry one, and the crops
were very poor. The weather
was very hot, and the ground
was very dry. The crops
were very poor, and the
weather was very hot.

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the first thing I did was to go to the bank and see what I could do about the money. I had a few dollars left over from the last year, and I thought I would see if I could get some more.

I went to the bank and saw the manager. He was a very nice man, and he was very helpful. He told me that I could get a loan of \$1000 if I had a good job and a good credit record.

I had a good job, and I had a good credit record. I had been working for the same company for five years, and I had never had any trouble with my credit.

So I went back to the bank and asked for the loan. The manager was very kind, and he gave me the money. I was very happy, and I was able to pay my bills.

I had a very good experience with the bank. The manager was very helpful, and the money was very easy to get. I was very satisfied with the service.

I will be sure to go back to the bank when I need more money. I will be sure to tell my friends about the bank, and I will be sure to recommend it to everyone.

I was very happy with the bank, and I was very satisfied with the service. I will be sure to go back to the bank when I need more money.

I will be sure to tell my friends about the bank, and I will be sure to recommend it to everyone. I will be sure to go back to the bank when I need more money.

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I will be sure to tell my friends about the bank, and I will be sure to recommend it to everyone. I will be sure to go back to the bank when I need more money.

此乃其所以為神也。其所以為神者，以其能化也。化者，變也。變者，易也。易者，動也。動者，氣也。氣者，神也。神者，心也。心者，性也。性者，理也。理者，道也。道者，天也。天者，地也。地者，人

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此其所以為聖也。然則聖人之德，豈易及哉！

夫聖人之德，豈易及哉！然則聖人之德，豈易及哉！

夫聖人之德，豈易及哉！然則聖人之德，豈易及哉！

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夫聖人之德，豈易及哉！然則聖人之德，豈易及哉！

夫聖人之德，豈易及哉！然則聖人之德，豈易及哉！

一、本會之宗旨。在於研究社會科學。以改良社會。而救國。其範圍包括政治。經濟。法律。教育。社會。心理。等學。凡我會員。應以此為共同之目標。

二、本會之組織。由會員大會為最高權力機關。其下設理事會。及監事會。理事會由會員大會選舉之。其職權為執行會員大會之決議。並管理會務。監事會由會員大會選舉之。其職權為監督理事會之執行。

三、本會之經費。由會員繳納會費。及社會捐助。凡我會員。應踴躍繳納會費。以資維持。

四、本會之活動。應包括學術研究。社會服務。及社會宣傳。凡我會員。應積極參與。

以上為本會之章程。凡我會員。應共同遵守。如有任何修改。應由會員大會決議。

中華民國二十三年一月一日

本會之成立。乃社會科學研究之重要里程碑。其目的在於促進學術之進步。及社會之改良。凡我會員。應以此為共同之目標。

一、本會之宗旨。在於研究社會科學。以改良社會。而救國。其範圍包括政治。經濟。法律。教育。社會。心理。等學。凡我會員。應以此為共同之目標。

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四、本會之活動。應包括學術研究。社會服務。及社會宣傳。凡我會員。應積極參與。

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一、凡我同胞，務宜注意。

二、凡我同胞，務宜注意。

三、凡我同胞，務宜注意。

四、凡我同胞，務宜注意。

五、凡我同胞，務宜注意。

六、凡我同胞，務宜注意。

七、凡我同胞，務宜注意。

八、凡我同胞，務宜注意。

九、凡我同胞，務宜注意。

十、凡我同胞，務宜注意。

十一、凡我同胞，務宜注意。

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MEMORANDUM

On the subject of the proposed changes in the...

The proposed changes in the...

It is suggested that the...

Very truly yours,
[Signature]

The proposed changes in the...

The proposed changes in the...

It is suggested that the...

The proposed changes in the...

It is suggested that the...

The proposed changes in the...

It is suggested that the...

The proposed changes in the...

Very truly yours,
[Signature]

The first part of the book is devoted to a general history of the United States from its discovery to the present time. It is divided into three volumes. The first volume contains the history of the discovery and settlement of the continent, and the second volume contains the history of the colonies and the struggle for independence. The third volume contains the history of the United States from the adoption of the Constitution to the present time.

The second part of the book is devoted to a general history of the United States from its discovery to the present time. It is divided into three volumes. The first volume contains the history of the discovery and settlement of the continent, and the second volume contains the history of the colonies and the struggle for independence. The third volume contains the history of the United States from the adoption of the Constitution to the present time.

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The third part of the book is devoted to a general history of the United States from its discovery to the present time. It is divided into three volumes. The first volume contains the history of the discovery and settlement of the continent, and the second volume contains the history of the colonies and the struggle for independence. The third volume contains the history of the United States from the adoption of the Constitution to the present time.

THE UNIVERSITY OF CHICAGO
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中華民國二十九年

神農書局

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神農書局

電話



發行所

上海

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民國二十九年

神農書局

上海南京路

電話 五二四號

神農書局

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