

СНОВА В ШКОЛУ :-)



**Институт
промышленного
менеджмента,
экономики и торговли**





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Мировая экономика и
Международные экономические отношения



16 лекций

16 упражнений

Экзамен

и
Зачет



Лекционные часы

Теория мировой экономики и международных экономических отношений

Handwritten mathematical notes and diagrams illustrating the derivation of the Fourier series for a function $f(x)$ on the interval $[-\pi, \pi]$.

Top Section: Derivation of the Fourier Series

$$H = \frac{1}{2\pi} \int_{-\pi}^{\pi} f(x) e^{-inx} dx$$

$$f(x) = \sum_{n=-\infty}^{\infty} H e^{inx}$$

Middle Section: Graph of a function $f(x)$

The graph shows a function $f(x)$ on the interval $[-\pi, \pi]$. The function is zero at $x = -\pi$ and $x = \pi$. The function is a sine wave with a peak at $x = 0$ and a trough at $x = \pi$. The function is labeled $f(x)$ and the interval is labeled $[-\pi, \pi]$.

Bottom Section: Derivation of the Fourier Series

$$f(x) = \sum_{n=-\infty}^{\infty} H e^{inx}$$

$$f(x) = \sum_{n=-\infty}^{\infty} \frac{1}{2\pi} \int_{-\pi}^{\pi} f(x) e^{-inx} dx e^{inx}$$

$$f(x) = \frac{1}{2\pi} \int_{-\pi}^{\pi} f(x) \sum_{n=-\infty}^{\infty} e^{i(x-x_0)n} dx$$

The notes also include various mathematical identities and derivations, such as:

- $\frac{1}{2\pi} \int_{-\pi}^{\pi} f(x) e^{-inx} dx = H$
- $f(x) = \sum_{n=-\infty}^{\infty} H e^{inx}$
- $f(x) = \frac{1}{2\pi} \int_{-\pi}^{\pi} f(x) \sum_{n=-\infty}^{\infty} e^{i(x-x_0)n} dx$
- $\sum_{n=-\infty}^{\infty} e^{i(x-x_0)n} = \sum_{n=-\infty}^{\infty} e^{inx} e^{-inx_0}$
- $\sum_{n=-\infty}^{\infty} e^{inx} = \sum_{n=-\infty}^{\infty} \cos(nx) + i \sum_{n=-\infty}^{\infty} \sin(nx)$
- $\sum_{n=-\infty}^{\infty} \cos(nx) = \frac{1}{2} \sum_{n=-\infty}^{\infty} (e^{inx} + e^{-inx})$
- $\sum_{n=-\infty}^{\infty} \sin(nx) = \frac{1}{2i} \sum_{n=-\infty}^{\infty} (e^{inx} - e^{-inx})$
- $\sum_{n=-\infty}^{\infty} e^{inx} = \frac{1}{2} \sum_{n=-\infty}^{\infty} (e^{inx} + e^{-inx}) + \frac{1}{2i} \sum_{n=-\infty}^{\infty} (e^{inx} - e^{-inx})$
- $\sum_{n=-\infty}^{\infty} e^{inx} = \frac{1}{2} \sum_{n=-\infty}^{\infty} (e^{inx} + e^{-inx}) + \frac{1}{2i} \sum_{n=-\infty}^{\infty} (e^{inx} - e^{-inx})$
- $\sum_{n=-\infty}^{\infty} e^{inx} = \frac{1}{2} \sum_{n=-\infty}^{\infty} (e^{inx} + e^{-inx}) + \frac{1}{2i} \sum_{n=-\infty}^{\infty} (e^{inx} - e^{-inx})$
- $\sum_{n=-\infty}^{\infty} e^{inx} = \frac{1}{2} \sum_{n=-\infty}^{\infty} (e^{inx} + e^{-inx}) + \frac{1}{2i} \sum_{n=-\infty}^{\infty} (e^{inx} - e^{-inx})$

Часы упражнений





Экзаменационная (итоговая) оценка

- ▣ 90 баллов ОТЛИЧНО
- ▣ 80 баллов ХОРОШО
- ▣ 65 баллов
УДОВЛЕТВОРИТЕЛЬНО
- < 65 баллов ПЛОХО
- < 50 баллов ООЧЕНЬ ПЛОХО

FAQ



**No Mobile phones
No iPads
И т.д. на экзамене**



Источники статистики и другой супер полезной информации:

<https://www.cia.gov/index.html>

The Central Intelligence Agency (CIA) is an independent US government agency responsible for providing national security intelligence to senior US policymakers.

**ЕМИСС -
Единая межведомственная
информационно-
статистическая система**

<http://www.weforum.org>

The World Economic Forum

The World Economic Forum publishes a comprehensive series of reports which examine in detail the broad range of global issues it seeks to address with stakeholders as part of its mission of improving the state of the world. Besides reports on its key events and standalone publications such as the Global Competitiveness Report, the Global Risks Report and the Global Gender Gap Report, the Forum produces landmark titles covering the environment, education, individual industries and technologies.

fedstat.ru

<http://www.mid.ru>

<http://iformatsiya.ru/>

<http://data.worldbank.org/indicator>

<http://www.imf.org/external/data.htm#data>

international monetary fund МВФ

<http://> <http://>

www.gks.ru



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