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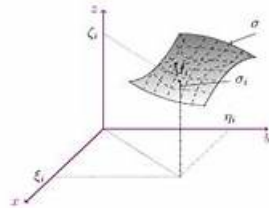
Лекція № 11

§ 18. ПОВЕРХНЕВІ ІНТЕГРАЛИ ПЕРШОГО РОДУ

Розрізняють два типи поверхневих інтегралів – поверхневі інтеграли першого та другого роду.

Поверхневий інтеграл першого роду є узагальненням подвійних інтегралів.

Нехай в точках деякої кусково-гладкої поверхні σ визначена обмежена функція $f(x, y, z)$. Розіб'ємо поверхню σ на n довільних частин σ_i і без спільних внутрішніх точок.



Нехай $\Delta\sigma_i$ – площі σ_i , $d_1, d_2, \dots, d_n$ – діаметри частин σ_i , а $\lambda = \max_{1 \leq i \leq n} \{d_i\}$ – діаметр розбиття.

У кожній частині σ_i виберемо довільним чином точку $M_i(\xi_i, \eta_i, \zeta_i)$ і складемо суму

$$S_n = \sum_{i=1}^n f(\xi_i, \eta_i, \zeta_i) \Delta\sigma_i,$$

яку називають інтегральною сумою функції $f(x, y, z)$ за поверхнею σ .

Визначення

Якщо існує скінченна границя інтегральної суми S_n при $\lambda \rightarrow 0$, яка не залежить ні від способу розбиття поверхні σ на частини, ні від способу вибору точок M_i , то ця границя називають поверхневим інтегралом першого роду від функції $f(x, y, z)$ за поверхнею σ і позначають символом $\iint_{\sigma} f(x, y, z) d\sigma$.

Отже,

$$\iint_{\sigma} f(x, y, z) d\sigma = \lim_{\lambda \rightarrow 0} \sum_{i=1}^n f(\xi_i, \eta_i, \zeta_i) \Delta\sigma_i$$

При цьому функцію $f(x, y, z)$ називають інтегрованою по поверхні σ , а поверхню σ – поверхнею інтегрування.

Теорема (достатня умова інтегровності функції)

Якщо функція $f(x, y, z)$ неперервна на поверхні σ , то вона інтегровна по σ , тобто існує поверхневий інтеграл $\iint_{\sigma} f(x, y, z) d\sigma$.

Основні властивості поверхневого інтеграла першого роду аналогічні до властивостей подвійного інтеграла (див. § 2). Є також своя властивість – поверхневий інтеграл першого роду не залежить від орієнтації поверхні.

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To be eligible to take the Huawei H31-341_V2.5 certification exam, candidates must have a minimum of two years of experience in the telecommunications industry. They must also possess a strong understanding of transmission network technologies, including optical fiber transmission, packet transmission, microwave transmission, and access network technologies. Candidates who successfully pass the exam will be awarded the HCIP-Transmission V2.5 certification, which demonstrates their expertise in the field of transmission network planning, operation, and maintenance.

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Huawei HCIP-Transmission V2.5 Sample Questions (Q56-Q61):

NEW QUESTION # 56

When setting the monitoring time of network element performance events, which of the following should be set as the time?

- A. Consistent with the current and current time of the network element
- B. Earlier than the current time
- C. slightly later than the current time
- D. Arbitrary settings

Answer: C

NEW QUESTION # 57

Which of the following descriptions about optical fibers is wrong?

- A. The diameter of multimode fiber is usually about 50m.
- B. The loss of optical fiber mainly depends on three kinds of losses: absorption loss, scattering loss and bending loss.
- C. The refractive index n_1 of the core is greater than the refractive index n_2 of the cladding.
- D. The diameter of single-mode fiber is generally greater than 10 μm .

Answer: A

NEW QUESTION # 58

Which of the following fault handling methods that can be used to isolate external faults? (Multiple choice)

- A. Substitution method
- B. Instrument test method
- C. Configuration data method
- D. Exchange method

Answer: A,B,D

NEW QUESTION # 59

Which of the following is the maximum service capacity on the STM-4 bidirectional multiplex section protection ring composed of four network elements?

- A. 504 2M
- B. 1008 2M
- C. 252 2M
- D. 63 2M

Answer: A

NEW QUESTION # 60

Which of the following description about QPSK modulation technology is wrong? (Multiple choice)

- A. EPDM-QPSK is the best solution for 100G WDM transmission.
- B. Through QPSK, one phase represents 2 digital bits, which is equivalent to the processing of "1 is divided into 2" for the data, and the rate is reduced by half.
- C. The essence of QPSX is to reduce the baud rate of the optical signal by half without reducing the line rate by selecting two possible values for the phase of the optical field.
- D. QPSK modulation can increase the spectral bandwidth, reduce the OSNR requirements of the system and the damage of fiber nonlinearity, and improve the dispersion tolerance and PMD tolerance.

Answer: C,D

NEW QUESTION # 61

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