空间解析几何10-1

2022年4月1日 7:58

自量的内积 (点积,数量积)

Q. B = | a | 16 | BD 0=(a, 5) = [0, 7]

びむニ (axi+dyj+axk) + (brithy) + bak

引入:)功(产型直线企整作的) 用为工型曲线的

= (a, Ib) it kythyli thathyte Tito = (athe with of he) IT = Naxi + his + light = Max 14 /15/

 $W = |\vec{F}| |\vec{F}| |\vec{GSP}| |\vec{F}| |$

3)流量(通量) 用于第I型曲面积3



 $|H=S|V|O0=S|V||P|OO=O=(V, \hat{R})$ =|V|S|OO $H=SV\cdot RO$ ZXSF=SFOODE

= ブ. て

 $||f||_{L^{2}(L^{2})} = ||f||_{L^{2}(L^{2})} = |f||_{L^{2}(L^{2})} = |f||_{L^{2}(L^{2})$

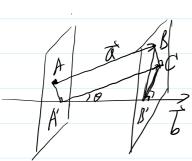


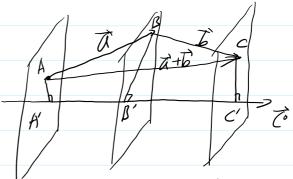
 $2) \quad \vec{a} \cdot \vec{\alpha} = |\vec{\alpha}|^2$

Prja = 10/6/0 S) J. b = 0 € JIB € axbx + by by + bx by=0 = [] [] [6] 600 - J.B

4) 延春律 (1) 及于=丁·在 (a) $(\overrightarrow{a}) \cdot \overrightarrow{b} = \lambda(\overrightarrow{a} \cdot \overrightarrow{b}) = \overrightarrow{a} \cdot \lambda \overrightarrow{b}$ (1) $(\overrightarrow{a} + \overrightarrow{b}) \cdot \overrightarrow{c} = \overrightarrow{a} \cdot \overrightarrow{c} + \overrightarrow{b} \cdot \overrightarrow{c}$

1841: 932 (a+1). 0 = a.0+1.0 火を by (オ+な) = py は + py は (外象3位)





A'S = | HIC | GO = | HIC | GO = | HIC | GO | HIC | TO E | HIC | GO | HIC | TO E | HIC | GO | HIC | TO E | HIC | GO | HIC | TO E | HIC | GO | HIC | TO E | HIC | GO |

f) 内积的发射 在=an,ay,an, 下=(bn,by,bn)

Ti. Ti = (ani+ dy j+ do k)· (bxi+by j+ bx k)

= Unbx Ti + Cybysis + art Fix

+ (an by + cy by) Tot + (dy bz + azby) J. F + (az bi + axbz) F. i

= Orchx + Cyby + Gbz

引用当肠建筑

10 >

できずずをまたってできます

 $\vec{a} \cdot \vec{b} = \vec{a} | \vec{b} | 600 \Rightarrow \vec{b} | (\vec{b}, \vec{b}) = \vec{b} = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|} = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}|} = \frac{\vec{a} \cdot \vec{b$ 06[0,7]

创加工, 間=1 的成了)=于 扩成二次+55万= 在-45 的美南

 $60(\vec{m},\vec{n}) = \frac{\vec{m} \cdot \vec{n}}{|\vec{m}| |\vec{n}|} \begin{cases} \vec{m} \cdot \vec{n} = (2\vec{a} + \vec{b}) \cdot (\vec{a} - 4\vec{b}) \\ = 2|\vec{a}|^2 - 8\vec{a} \cdot \vec{b} + \vec{b} \cdot \vec{a} - 4|\vec{b}|^2 = ---$

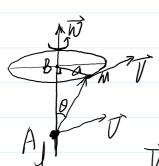
7.5=12) 15/652

|m|= m.m= (a+6)-(2a+6)=4|21+161+42.6

自堂的外教(义教,府堂教(堂教) $\frac{\partial \dot{x}}{\partial x} \frac{\partial \dot{x}}{\partial x} = \frac{\partial \dot{x}}{\partial x} \frac{\partial \dot{x}}{\partial$

 $|T| = |DA||F| \le 0$ $|T| = |DA||F| \le 0$

2) 成主发了 M系统发轴(超短(丝矩)), 改至与M角度发达成



 $\frac{1}{2} \frac{1}{2} \frac{1}$

V=W×Am

 $\mathcal{J}(\mathcal{L}) \quad \vec{a} \times \vec{a} = \vec{v} \quad \vec{A} \quad \vec{a} \times \vec{a} = \mathbf{0}$

2) TX5=0 @ T/16 @ T=25

3) $\begin{cases} (1) & \overrightarrow{a} \times \overrightarrow{b} = -\overrightarrow{b} \times \overrightarrow{a} \\ (1) & \overrightarrow{a} \times (\overrightarrow{b}) = (\overrightarrow{a} \overrightarrow{a} \times \overrightarrow{b}) = \lambda (\overrightarrow{a} \times \overrightarrow{b}) \end{cases}$ $(1) & (\overrightarrow{a} + \overrightarrow{b}) \times \overrightarrow{c} = \overrightarrow{a} \times \overrightarrow{c} + \overrightarrow{b} \times \overrightarrow{c}$

(b) (は+な)×で= なべさ+なべさ