第二讲:万有引力只详的应用

一, 两条线 泵,

- 1-天体运动近似为与速圆周运动有:Fx = F向
- Q、物体在星球表面或附近可看为 Fz = mg

二. 两组公立:

$$\int \frac{GMm}{r^2} = ma_n = \frac{mv^2}{r} = mw^2r = \frac{m4x^2}{T^2}r$$

$$\int \frac{d^2m}{dr} = ma_n = \frac{mv^2}{r} = mw^2r = \frac{m4x^2}{T^2}r$$

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三、可求量

$$\frac{GM}{P^2} = a_n = \frac{V}{r} = W^2 r = \frac{4\pi^2}{T^2} r$$

・ 注: 対于庆生, 只能市中心大体庆生 M, 环绕天体庆生M不可率

四:高轨低速大周朝

指导:
$$Q_n = \frac{GM}{F^2}$$
, $V = \sqrt{\frac{GM}{F}}$ $W = \sqrt{\frac{F^2}{GM}}$ $T = 2\sqrt{\frac{F^2}{GM}}$ \Rightarrow \$\text{substitute} \frac{1}{1} \text{ } \text{ } \frac{1}{1} \text{ } \frac{1}{1} \text{ } \frac{1}{1} \text{ } \text{ } \frac{1}{1} \text{ } \text{ } \frac{1}{1} \text{ } \text{ } \text{ } \text{ } \text{ } \frac{1}{1} \text{ } \text{

适用斜:只针对线同一机次体的 年 遏周运动