

T1 Kinematics	T1 scalar	T1 magnitude
T1 vector	T1 components	T1 unit vectors
T1 derivatives	T1 average velocity	T1 instantaneous velocity

T1 大小 dà xiǎo	T1 标量 biāo liàng	T1 运动学 yùn dòng xué
T1 单位矢量 dān wèi shǐ liàng	T1 分量 fēn liàng	T1 矢量 shǐ liàng
T1 瞬时速度 shùn shí sù dù	T1 平均速度 píng jūn sù dù	T1 导数 dǎo shù

T1 free fall	T1 reference frame	T1 relative motion
T1 projectile motion	T2 system	T2 center of mass
T2 force	T2 free-body diagram	T2 Newton's third law

T1 相对运动 xiāng duì yùn dòng	T1 参考系 cān kǎo xì	T1 自由落体 zì yóu luò tǐ
T2 质心 zhì xīn	T2 系统 xì tǒng	T1 抛体运动 pāo tǐ yùn dòng
T2 牛顿第三定律 niú dùn dì sān dìng lǚ	T2 受力图 shòu lì tú	T2 力 lì

T2 inertia	T2 net force	T2 translational equilibrium
T2 differential equation	T2 incline	T2 tension
T2 Newton's law of gravitation	T2 Friction	T2 kinetic

T2 平动平衡 píng dòng píng héng	T2 合力 hé lì	T2 惯性 guàn xìng
T2 张力 zhāng lì	T2 斜面 xié miàn	T2 微分方程 wēi fēn fāng chéng
T2 动摩擦 dòng mó cā	T2 摩擦力 mó cā lì	T2 万有引力定律 wàn yǒu yǐn lì dìng lǜ

T2 static	T2 normal force	T2 Hooke's law
T2 spring constant	T2 resistive force	T2 terminal velocity
T2 separate the variables	T2 centripetal acceleration	T3 Kinetic energy

T2 胡克定律 hú kè dìng lǚ	T2 法向力 fǎ xiàng lì	T2 静摩擦 jìng mó cā
T2 终极速度 zhōng jí sù dù	T2 阻力 zǔ lì	T2 弹簧劲度系数 tán huáng jìn dù xì shù
T3 动能 dòng néng	T2 向心加速度 xiàng xīn jiā sù dù	T2 分离变量 fēn lí biàn liàng

T3 scalar	T3 joules	T3 reference frame
T3 Work	T3 integral	T3 friction
T3 normal force	T3 work–energy theorem	T3 Potential energy

T3 参考系 cān kǎo xì	T3 焦耳 jiāo ěr	T3 标量 biāo liàng
T3 摩擦力 mó cā lì	T3 积分 jī fēn	T3 功 gōng
T3 势能 shì néng	T3 动能定理 dòng néng dìng lǐ	T3 法向力 fǎ xiàng lì

T3 conservative forces	T3 derivative	T3 stable equilibrium
T3 unstable equilibrium	T3 Mechanical energy	T3 nonconservative forces
T3 thermal energy	T3 turning points	T3 Power

T3 稳定平衡 wěn dìng píng héng	T3 导数 dǎo shù	T3 保守力 bǎo shǒu lì
T3 非保守力 fēi bǎo shǒu lì	T3 机械能 jī xiè néng	T3 不稳定平衡 bù wěn dìng píng héng
T3 功率 gōng lǜ	T3 转折点 zhuǎn zhé diǎn	T3 热能 rè néng

T3 watts	T4 Linear momentum	T4 vector
T4 collisions	T4 explosions	T4 center of mass
T4 impulse	T4 impulse–momentum theorem	T4 slope

T4 矢量 shǐ liàng	T4 动量 dòng liàng	T3 瓦特 wǎ tè
T4 质心 zhì xīn	T4 爆炸 bào zhà	T4 碰撞 pèng zhuàng
T4 斜率 xié lǜ	T4 冲量-动量定理 chōng liàng - dòng liàng dìng lǐ	T4 冲量 chōng liàng

T4 conserved	T4 kinetic energy	T4 elastic collision
T4 inelastic collision	T4 deformation	T4 perfectly inelastic collision
T5 angular displacement	T5 radians	T5 angular velocity

T4 弹性碰撞 tán xìng pèng zhuàng	T4 动能 dòng néng	T4 守恒 shǒu héng
T4 完全非弹性碰撞 wán quán fēi tán xìng pèng zhuàng	T4 形变 xíng biàn	T4 非弹性碰撞 fēi tán xìng pèng zhuàng
T5 角速度 jiǎo sù dù	T5 弧度 hú dù	T5 角位移 jiǎo wèi yí

T5 angular acceleration	T5 tangential acceleration	T5 centripetal acceleration
T5 Torque	T5 vector product	T5 moment arm
T5 right-hand rule	T5 Rotational inertia	T5 linear density

T5 向心加速度 xiàng xīn jiā sù dù	T5 切向加速度 qiè xiàng jiā sù dù	T5 角加速度 jiǎo jiā sù dù
T5 力臂 lì bì	T5 矢量积 shǐ liàng jī	T5 力矩 lì jǔ
T5 线密度 xiàn mì dù	T5 转动惯量 zhuǎn dòng guàn liàng	T5 右手定则 yòu shǒu dìng zé

T5 parallel-axis theorem	T5 rotational equilibrium	T5 static equilibrium
T5 pulley	T6 rotational kinetic energy	T6 rotational inertia
T6 torque	T6 angular displacement	T6 Angular momentum

T5 静平衡 jìng píng héng	T5 转动平衡 zhuǎn dòng píng héng	T5 平行轴定理 píng xíng zhóu dìng lǐ
T6 转动惯量 zhuǎn dòng guàn liàng	T6 转动动能 zhuǎn dòng dòng néng	T5 滑轮 huá lún
T6 角动量 jiǎo dòng liàng	T6 角位移 jiǎo wèi yí	T6 力矩 lì jǔ

T6 angular impulse	T6 conserved	T6 Rolling without slipping
T6 disk	T6 hoop	T6 centripetal force
T6 satellite	T6 gravitational potential energy	T6 total mechanical energy

T6 无滑滚动 wú huá gǔn dòng	T6 守恒 shǒu héng	T6 角冲量 jiǎo chōng liàng
T6 向心力 xiàng xīn lì	T6 圆环 yuán huán	T6 圆盘 yuán pán
T6 总机械能 zǒng jī xiè néng	T6 引力势能 yǐn lì shì néng	T6 卫星 wèi xīng

T6 escape velocity	T6 elliptical orbit	T6 Kepler's second law
T7 Simple harmonic motion	T7 periodic motion	T7 equilibrium
T7 restoring force	T7 differential equation	T7 angular frequency

T6 开普勒第二定律 kāi pǔ lēi dì èr dìng lǚ	T6 椭圆轨道 tuǒ yuán guǐ dào	T6 逃逸速度 táo yì sù dù
T7 平衡位置 píng héng wèi zhì	T7 周期运动 zhōu qī yùn dòng	T7 简谐运动 jiǎn xié yùn dòng
T7 角频率 jiǎo pín lǜ	T7 微分方程 wēi fēn fāng chéng	T7 回复力 huí fù lì

T7 period	T7 frequency	T7 amplitude
T7 phase constant	T7 natural frequency	T7 resonance
T7 physical pendulum	T7 small-angle approximation	T7 simple pendulum

T7 振幅 zhèn fú	T7 频率 pín lǜ	T7 周期 zhōu qī
T7 共振 gòng zhèn	T7 固有频率 gù yǒu pín lǜ	T7 相位常数 xiàng wèi cháng shù
T7 单摆 dān bǎi	T7 小角度近似 xiǎo jiǎo dù jìn sì	T7 物理摆 wù lǐ bǎi

T7

torsion pendulum

T7

扭摆

niǔ bǎi