

AP Physics 1

Glossary · 词汇表 · every term in the course, A–Z

English	中文	Pinyin
 absolute pressure	绝对压强	jué duì yā qiáng
accelerates	加速	jiā sù
 acceleration	加速度	jiā sù dù
 air resistance	空气阻力	kōng qì zǔ lì
airbag	安全气囊	ān quán qì náng
 amplitude	振幅	zhèn fú
 angular acceleration	角加速度	jiǎo jiā sù dù
 angular displacement	角位移	jiǎo wèi yí
 angular frequency	角频率	jiǎo pín lǜ
 angular impulse	角冲量	jiǎo chōng liàng
 angular momentum	角动量	jiǎo dòng liàng
 angular velocity	角速度	jiǎo sù dù
arc length	弧长	hú zhǎng
 Archimedes' principle	阿基米德原理	ā jī mǐ dé yuán lǐ
 area	面积	miàn jī
area under a torque versus angular-displacement graph	力矩-角位移图像下的面积	lì jǔ - jiǎo wèi yí tú xiàng xià de miàn jī
average power	平均功率	píng jūn gōng lǜ
 average velocity	平均速度	píng jūn sù dù
axis	轴	zhóu
axis of rotation	转轴	zhuàn zhóu
 Bernoulli's equation	伯努利方程	bó nǚ lì fāng chéng

English	中文	Pinyin
Bernoulli's principle	伯努利原理	bó nǚ lì yuán lǐ
 buoyant force	浮力	fú lì
 center of mass	质心	zhì xīn
center-of-mass velocity	质心速度	zhì xīn sù dù
 centripetal acceleration	向心加速度	xiàng xīn jiā sù dù
centripetal force	向心力	xiàng xīn lì
 coefficient of friction	摩擦系数	mó cā xì shù
 collisions	碰撞	pèng zhuàng
 components	分量	fèn liàng
 conservation of angular momentum	角动量守恒	jiǎo dòng liàng shǒu héng
 conservation of energy	能量守恒	néng liàng shǒu héng
conservative force	保守力	bǎo shǒu lì
 conservative forces	保守力	bǎo shǒu lì
 conserved	守恒	shǒu héng
contact forces	接触力	jiē chù lì
contact time	接触时间	jiē chù shí jiān
 Continuity	连续性	lián xù xìng
continuity equation	连续性方程	lián xù xìng fāng chéng
 deceleration	减速	jiǎn sù
 density	密度	mì dù
 depth	深度	shēn dù
 direction	方向	fāng xiàng
 displacement	位移	wèi yí

English	中文	Pinyin
 distance	距离	jù lí
 efficiency	效率	xiào lǜ
 elastic collision	弹性碰撞	tán xìng pèng zhuàng
 elastic potential energy	弹性势能	tán xìng shì néng
 Energy	能量	néng liàng
energy bar charts	能量条形图	néng liàng tiáo xíng tú
energy distribution	能量分配	néng liàng fēn pèi
 equilibrium	平衡	píng héng
Escape velocity	逃逸速度	táo yì sù dù
explosions	爆炸	bào zhà
external forces	外力	wài lì
 fluid	流体	liú tǐ
flywheel	飞轮	fēi lún
 force	力	lì
force pair	作用力对	zuò yòng lì duì
 free fall	自由落体	zì yóu luò tǐ
 free-body diagram	受力图	shòu lì tú
 frequency	频率	pín lǜ
 Friction	摩擦力	mó cā lì
 gauge pressure	表压	biǎo yā
graphs	图像	tú xiàng
gravitational field	引力场	yǐn lì chǎng
 gravitational strength	重力场强度	zhòng lì chǎng qiáng dù
gravitational mass	引力质量	yǐn lì zhì liàng

English	中文	Pinyin
 gravitational potential energy	引力势能	yǐn lì shì néng
 gravity	引力	yǐn lì
 Hooke's law	胡克定律	hú kè dìng lǜ
 ideal fluid	理想流体	lǐ xiǎng liú tǐ
 impulse	冲量	chōng liàng
impulse-momentum theorem	冲量动量定理	chōng liàng dòng liàng dìng lǐ
 incline	斜面	xié miàn
 incompressible	不可压缩	bù kě yā suō
 inelastic collision	非弹性碰撞	fēi tán xìng pèng zhuàng
 inertia	惯性	guàn xìng
Inertial mass	惯性质量	guàn xìng zhì liàng
inertial reference frame	惯性参考系	guàn xìng cān kǎo xì
instantaneous power	瞬时功率	shùn shí gōng lǜ
 instantaneous velocity	瞬时速度	shùn shí sù dù
internal forces	内力	nèi lì
isolated	孤立的	gū lì de
 joules	焦耳	jiāo ěr
 kinematics	运动学	yùn dòng xué
 kinetic energy	动能	dòng néng
 kinetic friction	动摩擦	dòng mó cā
law of conservation of energy	能量守恒定律	néng liàng shǒu héng dìng lǜ
 lever arm	力臂	lì bì
 linear momentum	动量	dòng liàng

English	中文	Pinyin
long-range forces	长程力	cháng chéng lì
 magnitude	大小	dà xiǎo
 mass	质量	zhì liàng
measurement	测量	cè liáng
mechanical energy	机械能	jī xiè néng
 moment arm	力臂	lì bì
net external force	净外力	jìng wài lì
 net force	合力	hé lì
 net inward (centripetal) force	向心力	xiàng xīn lì
net torque	净力矩	jìng lì jǔ
 Newton's first law	牛顿第一定律	niú dùn dì yí dìng lǜ
 Newton's law of gravitation	万有引力定律	wàn yǒu yǐn lì dìng lǜ
Newton's law of universal gravitation	万有引力定律	wàn yǒu yǐn lì dìng lǜ
Newton's laws	牛顿定律	niú dùn dìng lǜ
 Newton's second law	牛顿第二定律	niú dùn dì èr dìng lǜ
 Newton's third law	牛顿第三定律	niú dùn dì sān dìng lǜ
nonconservative forces	非保守力	fēi bǎo shǒu lì
 normal force	法向力	fǎ xiàng lì
orbital speed	轨道速度	guǐ dào sù dù
 oscillation	振动	zhèn dòng
parallel-axis theorem	平行轴定理	píng xíng zhóu dìng lǐ
perfectly inelastic collision	完全非弹性碰撞	wán quán fēi tán xìng pèng zhuàng
 period	周期	zhōu qī

English	中文	Pinyin
perpendicular components	垂直分量	chuí zhí fèn liàng
≏ phase	相位	xiàng wèi
📍 position	位置	wèi zhì
➔ positive direction	正方向	zhèng fāng xiàng
🔋 potential energy	势能	shì néng
💡 power	功率	gōng lǜ
↓ pressure	压强	yā qiáng
↗ projectile	抛体	pāo tǐ
🏹 projectile motion	抛体运动	pāo tǐ yùn dòng
π radians	弧度	hú dù
radii	半径	bàn jìng
↕ range	射程	shè chéng
🏹 recoil	反冲	fǎn chōng
📏 reference frame	参考系	cān kǎo xì
⚖ relative	相对	xiāng duì
↔ relative motion	相对运动	xiāng duì yùn dòng
↶ restoring force	回复力	huí fù lì
➦ resultant	合矢量	hé shǐ liàng
rigid body	刚体	gāng tǐ
⚙ rolling without slipping	无滑滚动	wú huá gǔn dòng
rotation	转动	zhuǎn dòng
rotational collisions	转动碰撞	zhuǎn dòng pèng zhuàng
⚖ rotational equilibrium	转动平衡	zhuǎn dòng píng héng

English	中文	Pinyin
 rotational inertia	转动惯量	zhuǎn dòng guàn liàng
rotational kinematic equations	转动运动学方程	zhuǎn dòng yùn dòng xué fāng chéng
 rotational kinetic energy	转动动能	zhuǎn dòng dòng néng
rotational power	转动功率	zhuǎn dòng gōng lǜ
 satellite	卫星	wèi xīng
# scalar	标量	biāo liàng
sign	符号	fú hào
 simple harmonic motion	简谐运动	jiǎn xié yùn dòng
 slope	斜率	xié lǜ
 speed	速率	sù lǜ
spinning skater	花样滑冰选手	huā yàng huá bīng xuǎn shǒu
 spring constant	弹簧劲度系数	tán huáng jìn dù xì shù
static equilibrium	静平衡	jìng píng héng
 static friction	静摩擦	jìng mó cā
 system	系统	xì tǒng
tangential acceleration	切向加速度	qiè xiàng jiā sù dù
tangential velocity	切向速度	qiè xiàng sù dù
 tension	张力	zhāng lì
 thermal energy	热能	rè néng
 torque	力矩	lì jǔ
total kinetic energy	总动能	zǒng dòng néng
 total mechanical energy	机械能	jī xiè néng

English	中文	Pinyin
 trajectory	轨迹	guǐ jì
translation	平动	píng dòng
 translational equilibrium	平动平衡	píng dòng píng héng
uniform circular motion	匀速圆周运动	yún sù yuán zhōu yùn dòng
 vector	矢量	shǐ liàng
 velocity	速度	sù dù
 viscosity	黏度	nián dù
 watts	瓦特	wǎ tè
 weight	重量	zhòng liàng
 work	功	gōng
work done by a torque	力矩做的功	lì jǔ zuò de gōng
work-energy theorem	动能定理	dòng néng dìng lǐ
 work-energy theorem	动能定理	dòng néng dìng lǐ