

AP Physics 2

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

English	Pinyin
absolute	jué duì
absolute zero	jué duì líng dù
 absorption spectrum	xī shōu guāng pǔ
accelerated	jiā sù
Adiabatic	jué rè
 alpha	ā ěr fǎ
 Alpha decay	ā ěr fǎ shuāi biàn
 ammeter	diàn liú biǎo
 amperes	ān péi
 amplitude	zhèn fú
angle	jiǎo dù
 angle of incidence	rù shè jiǎo
 angle of reflection	fǎn shè jiǎo
 antineutrino	fǎn zhōng wēi zi
 antinodes	bō fù
 antireflection coating	zēng tòu mó
area	miàn jī
atoms	yuán zi
attract	xī yǐn

English	Pinyin
Avogadro constant	ā fú gā dé luó cháng shù
battery	diàn chí
 beat frequency	pāi pín
 beats	pāi
 beta	bèi tǎ
 Beta decay	bèi tǎ shuāi biàn
 blackbody	hēi tǐ
 Bohr model	bō ěr mó xíng
Boltzmann constant	bō ěr zī màn cháng shù
 brightness	liàng dù
 capacitance	diàn róng
 capacitor	diàn róng qì
centripetal force	xiàng xīn lì
charge quantization	diàn hè liàng zǐ huà
circle	yuán xíng
 circuit	diàn lù
closed loops	bì hé huí lù
= Coherent	xiāng gān
compass	zhǐ nán zhēn
 Compton scattering	kāng pǔ dùn sǎn shè
concave	āo miàn jìng

English	Pinyin
 Conduction <i>/kən'dʌkʃn/</i>	chuán dǎo
 conductor <i>/kən'dʌktə/</i>	dǎo tǐ
conservation of charge <i>/ˌkɒnsə'veɪʃn ɒv tʃɑːdʒ/</i>	diàn hè shǒu héng
conservation of energy <i>/ˌkɒnsə'veɪʃn ɒv 'enədʒi/</i>	néng liàng shǒu héng
conserved <i>/kən'sɜːvd/</i>	shǒu héng
 constructive interference <i>/kən'strʌktɪv ˌɪntə'fɪərəns/</i>	xiāng zhǎng gān shè
 Convection <i>/kən'vekʃn/</i>	duì liú
conventional current <i>/kən'venʃənl 'kʌrənt/</i>	cháng guī diàn liú
 converging <i>/kən'vɜːdʒɪŋ/</i>	huì jù
converging lens <i>/kən'vɜːdʒɪŋ lenz/</i>	huì jù tòu jìng
convex <i>/kɒn'veks/</i>	tū miàn jìng
Coulomb's constant	kù lún cháng shù
 Coulomb's law <i>/'kuːlɒmz lɔː/</i>	kù lún dīng lǚ
coulombs <i>/'kuːlɒmz/</i>	kù lún
critical angle <i>/'krɪtɪkl 'æŋɡl/</i>	lín jiè jiǎo
current-carrying wire	zài liú dǎo xiàn
cycle <i>/'saɪkl/</i>	xún huán
de Broglie wavelength <i>/də 'brəʊli 'weɪvlɛŋθ/</i>	dé bù luó yì bō cháng
destructive <i>/dɪ'strʌktɪv/</i>	xiāng xiāo gān shè
 destructive interference <i>/dɪ'strʌktɪv ˌɪntə'fɪərəns/</i>	xiāng xiāo gān shè

English	Pinyin
 Diamagnetic <i>/ˌdaɪəməɡ'netɪk/</i>	kàng cí xìng
 diffraction <i>/dɪ'frækʃn/</i>	yǎn shè
 diffraction grating <i>/dɪ'frækʃn 'ɡreɪtɪŋ/</i>	yǎn shè guāng shān
diffuse reflection	màn fǎn shè
disorder <i>/dɪ'sɔːdə/</i>	wú xù
 diverging <i>/daɪ'vɜːdʒɪŋ/</i>	fā sàn
diverging lens <i>/daɪ'vɜːdʒɪŋ lenz/</i>	fā sàn tòu jìng
 Doppler effect <i>/'dɒplə ɪ'fekt/</i>	duō pǔ lè xiào yìng
 double-slit experiment <i>/'dʌbl slɪt ɛk'spɪrɪmənt/</i>	shuāng fèng shí yàn
efficiency <i>/ɪ'fɪʃənsi/</i>	xiào lǚ
 electric charge <i>/ɪ'lektrɪk tʃɑːdʒ/</i>	diàn hè
 electric current <i>/ɪ'lektrɪk 'kʌrənt/</i>	diàn liú
 electric field <i>/ɪ'lektrɪk fiːld/</i>	diàn chǎng
electric motor	diàn dòng jī
 electric potential <i>/ɪ'lektrɪk pə'tenʃl/</i>	diàn shì
 electric potential energy <i>/ɪ'lektrɪk pə'tenʃl 'enədʒi/</i>	diàn shì néng
 electric power <i>/ɪ'lektrɪk 'paʊə/</i>	diàn gōng lǚ
electrical energy <i>/ɪ'lektrɪkl 'enədʒi/</i>	diàn néng
 electromagnetic induction <i>/ɪˌlektɹəʊməɡ'netɪk ɪn'dʌkʃn/</i>	diàn cí gǎn yìng

English	Pinyin
electromagnetic spectrum	diàn cí bō pǔ
 electromagnetic wave	diàn cí bō
 electron	diàn zi
elementary charge	jī běn diàn hè
emf	diàn dòng shì
 emission spectrum	fā shè guāng pǔ
energy	néng liàng
 energy levels	néng jí
energy quantization	néng liàng liàng zǐ huà
energy stored	chǔ cún de néng liàng
 entropy	shāng
 equivalent resistance	děng xiào diàn zǔ
 Faraday's law	fǎ lǎ dì dīng lǚ
farads	fǎ lǎ
 Ferromagnetic field lines	tiě cí xìng
	diàn chǎng xiàn
 first law	rè lì xué dì yí dīng lǚ
 first law of thermodynamics	rè lì xué dì yí dīng lǚ
 fission	liè biàn

English	Pinyin
 frequency	pín lǚ
friction	mó cā qǐ diàn
 fusion	jù biàn
 gamma	gā mǎ
 Gamma decay	gā mǎ shuāi biàn
generator	fā diàn jī
 Geometric optics	jǐ hé guāng xué
ground	jiē dì
 half-life	bàn shuāi qī
heat	rè liàng
heat engine	rè jī
 ideal gas	lǐ xiǎng qì tǐ
 ideal gas law	lǐ xiǎng qì tǐ dīng lǚ
 index of refraction	zhé shè lǚ
 induction	gǎn yìng qǐ diàn
insulator	jué rè tǐ
 intensity	qiáng dù
 internal energy	nèi néng
internal resistance	nèi zǔ
inverse-square	fǎn píng fāng

English	Pinyin
ions <i>/ˈaɪɒnz/</i>	lí zi
Isobaric	děng yā
Isochoric	děng róng
isolated system <i>/ˈaɪsələɪtɪd ˈsɪstəm/</i>	gū lì xì tǒng
Isothermal <i>/ˌaɪsəˈθɜːml/</i>	děng wēn
 kelvin <i>/ˈkelvɪn/</i>	kāi ěr wén
kinetic energy <i>/kɪˈnetɪk ˈenədʒi/</i>	dòng néng
 kinetic theory <i>/kɪˈnetɪk ˈθiəri/</i>	fēn zǐ yùn dòng lùn
 Kirchhoff's junction rule <i>/ˈkɜːkhɒfs ˈdʒʌŋkʃn ruːl/</i>	jī ěr huò fū jié diǎn dòng lǚ
 Kirchhoff's loop rule <i>/ˈkɜːkhɒfs luːp ruːl/</i>	jī ěr huò fū huí lù dòng lǚ
 law of reflection <i>/lɔː vɪ ˈrɪˈflekʃn/</i>	fǎn shè dòng lǚ
length <i>/lengθ/</i>	cháng dù
 Lenz's law <i>/ˈlentsɪz lɔː/</i>	léng cì dòng lǚ
 lepton number <i>/ˈlepton ˈnambə/</i>	qīng zì shù
 light bulb <i>/laɪt bʌlb/</i>	dēng pào
 Longitudinal <i>/ˌlɒŋɡɪˈtjuːdɪnl/</i>	zòng bō
 longitudinal wave <i>/ˌlɒŋɡɪˈtjuːdɪnl weɪv/</i>	zòng bō
loop <i>/luːp/</i>	xiàn quān
magnet <i>/ˈmæɡnɪt/</i>	cí tiě
 magnetic field <i>/mæɡˈnetɪk fiːld/</i>	cí chǎng

English	Pinyin
magnetic field lines <i>/mæɡˈnetɪk fiːld laɪnz/</i>	cí gǎn xiàn
 magnetic flux <i>/mæɡˈnetɪk flʌks/</i>	cí tōng liàng
 magnetic force <i>/mæɡˈnetɪk fɔːs/</i>	cí lì
magnetic monopole	cí dān jí zì
magnification <i>/ˌmæɡnɪfɪˈkeɪʃn/</i>	fàng dà lǚ
mass <i>/mæs/</i>	zhì liàng
mass spectrometer <i>/mæs spekˈtrɒmɪtə/</i>	zhì pǔ yí
mirror equation	miàn jìng gōng shì
molecules <i>/ˈmɒlɪkjʊːlz/</i>	fēn zǐ
moles <i>/məʊlz/</i>	mó ěr
momentum <i>/məʊˈmentəm/</i>	dòng liàng
MRI	cí gòng zhèn
negative <i>/ˈnegatɪv/</i>	fù de
neutral <i>/ˈnjuːtrəl/</i>	zhōng xìng
 neutrino <i>/njuːˈtriːnəʊ/</i>	zhōng wēi zì
no isolated poles	wú gū lì cí jí
 nodes <i>/nəʊdɪz/</i>	bō jié
 nonideal <i>/ˌnɒnaɪˈdiəl/</i>	fēi lǐ xiǎng
north pole <i>/nɔːθ pəʊl/</i>	běi jí
 nucleus <i>/ˈnjuːklɪəs/</i>	yuán zǐ hé
 Ohm's law <i>/əʊmz lɔː/</i>	ōu mǔ dòng lǚ

English	Pinyin
 ohmic <i>/ˈəʊmɪk/</i>	ōu mǔ xìng
 parallel <i>/ˈpærəlel/</i>	píng xíng
 parallel circuit <i>/ˈpærəlel ˈsɜːkɪt/</i>	bìng lián
 parallel-plate capacitor <i>/ˈpærəlel plɛt kəˈpæsɪtə/</i>	píng xíng bǎn diàn róng qì
 Paramagnetic <i>/ˌpærəˈmæɡˈnetɪk/</i>	shùn cí xìng
 period <i>/ˈpiəriəd/</i>	zhōu qī
 permeability <i>/ˌpɜːməˈbɪlɪti/</i>	cí dǎo lǚ
 permeability of free space	zhēn kōng cí dǎo lǚ
 permittivity <i>/ˌpɜːmɪˈtɪvəti/</i>	jiè diàn cháng shù
 permittivity of free space <i>/ˌpɜːmɪˈtɪvəti ɒv friː speɪs/</i>	zhēn kōng jiè diàn cháng shù
 perpendicular <i>/ˌpɜːpənˈdɪkjələ/</i>	chuí zhí
 phase change <i>/feɪz tʃeɪndʒ/</i>	xiàng wèi biàn huà
 photoelectric effect <i>/ˌfəʊtəʊˈlɛktrɪk ɪˈfekt/</i>	guāng diàn xiào yìng
 photons <i>/ˈfəʊtɒnz/</i>	guāng zì
 point charge <i>/pɔɪnt tʃɑːdʒ/</i>	diǎn diàn hè
 polarization <i>/ˌpəʊləraɪˈzeɪʃn/</i>	jí huà
 poles <i>/pəʊlz/</i>	cí jí
 positive <i>/ˈpɒzɪtɪv/</i>	zhèng de
 positron <i>/ˈpɒzɪtrɒn/</i>	zhèng diàn zì

English	Pinyin
 potential difference <i>/pəˈtɛnʃl ˈdɪfrəns/</i>	diàn shì chà
 Pressure <i>/ˈprɛʃə/</i>	yā qiáng
 pressure-volume graph	yā róng tú
 principle of superposition <i>/ˈprɪnsɪpl ɒv ˌsuːpəpəˈzɪʃn/</i>	dié jiā yuán lǐ
 proton <i>/ˈprəʊtɒn/</i>	zhì zì
 quanta <i>/ˈkwɒntə/</i>	liàng zǐ
 Radiation <i>/ˌreɪdɪˈeɪʃn/</i>	fú shè
 radioactive decay <i>/ˌreɪdɪəʊˈæktɪv dɪˈkeɪ/</i>	fàng shè xìng shuāi biàn
 radius <i>/ˈreɪdiəs/</i>	bàn jìng
 ray	guāng xiàn
 RC circuit	RC RC diàn lù
 real image <i>/rɪəl ˈɪmɪdʒ/</i>	shí xiàng
 redshift <i>/ˈredʃɪft/</i>	hóng yí
 refraction <i>/rɪˈfrækʃn/</i>	zhé shè
 repel <i>/rɪˈpel/</i>	pái chì
 resistance <i>/rɪˈzɪstəns/</i>	diàn zǔ
 resistivity <i>/ˌrɪːzɪˈstɪvəti/</i>	diàn zǔ lǚ
 right-hand rule <i>/raɪt hænd ruːl/</i>	yòu shǒu dīng zé
 second law <i>/ˈsekənd lɔː/</i>	rè lì xué dì èr dīng lǚ

English	Pinyin
 second law of thermodynamics <i>/ˈsekənd lɔː dv θɜːməʊdaɪˈnæmiks/</i>	rè lì xué dì èr dìng lǚ
 series <i>/ˈsiəriːz/</i>	chuàn lián
series circuit	chuàn lián
 Snell's law <i>/snelz lɔː/</i>	sī niè ěr dìng lǚ
south pole <i>/saʊθ pəʊl/</i>	nán jí
 specific heat <i>/spəˈsɪfɪk hiːt/</i>	bǐ rè róng
specular reflection	jìng miàn fǎn shè
speed <i>/spiːd/</i>	sù lǚ
speed of light	guāng sù
 standing wave <i>/ˈstændɪŋ weɪv/</i>	zhù bō
states <i>/steɪts/</i>	zhuàng tài
steady state <i>/ˈstedi steɪt/</i>	wěn tài
 Temperature <i>/ˈtemprɪtʃə/</i>	wēn dù
terminal voltage <i>/ˈtɜːmɪnəl ˈvəʊltɪdʒ/</i>	duān diàn yā
teslas	tè sī lā
test charge <i>/test tʃɑːdʒ/</i>	shì tàn diàn hè
 thermal conductivity <i>/ˈθɜːməl kɒndəktɪvɪti/</i>	rè dǎo lǚ
 thermal equilibrium <i>/ˈθɜːməl ɪːkwɪˈlɪbrɪəm/</i>	rè píng héng
 Thermodynamics <i>/θɜːməʊdaɪˈnæmiks/</i>	rè lì xué
thermometer <i>/θɜːˈmɒmɪtə/</i>	wēn dù jì

English	Pinyin
 thin film <i>/θɪn fɪlm/</i>	báo mó
thin-film interference	báo mó gān shè
thin-lens equation	báo tóu jìng fāng chéng
threshold frequency <i>/ˈθreʃəʊld ˈfriːkwənsi/</i>	jié zhǐ pín lǚ
thumb	mǔ zhǐ
time constant <i>/taɪm ˈkɒnstənt/</i>	shí jiān cháng shù
 total internal reflection <i>/ˈtəʊtl ɪnˈtɜːnl rɪˈflekʃn/</i>	quán nèi fǎn shè
transformer <i>/trænsˈfɔːmə/</i>	biàn yā qì
translational <i>/trænˈsleɪʃənl/</i>	píng dòng
 Transverse <i>/trænsˈvɜːs/</i>	héng bō
 transverse wave <i>/trænsˈvɜːs weɪv/</i>	héng bō
uniform field <i>/ˈjuːnɪfɔːm fiːld/</i>	yún qiáng diàn chǎng
uniform magnetic field	yún qiáng cí chǎng
universal gas constant	pǔ shì qì tǐ cháng shù
vector field <i>/ˈvektə fiːld/</i>	shǐ liàng chǎng
vector sum <i>/ˈvektə sʌm/</i>	shǐ liàng hé
velocity <i>/vəˈləsɪti/</i>	sù dù
 virtual image <i>/ˈvɜːtʃuəl ˈɪmɪdʒ/</i>	xū xiàng
 voltage <i>/ˈvəʊltɪdʒ/</i>	diàn yā
 voltmeter <i>/ˈvəʊltmɪːtə/</i>	diàn yā biǎo
volts <i>/vəʊlts/</i>	fú tè

English	Pinyin
 wave	bō
<i>/weɪv/</i>	
wave equation	bō dòng fāng chéng
wave polarization	piān zhèn
 wave speed	bō sù
<i>/weɪv spi:d/</i>	
wave-particle duality	bō lì èr xiàng xìng
<i>/weɪv 'pɑ:tɪkl dju:'æli ti/</i>	
 wavelength	bō cháng
<i>/'weɪvlɛŋθ/</i>	
 Wave-particle duality	bō lì èr xiàng xìng
<i>/weɪv 'pɑ:tɪkl dju:'æli ti/</i>	
webers	wéi bó
<i>/'veɪbəz/</i>	
Wien's law	wéi ēn dìng lǚ
work	gōng
<i>/wɜ:k/</i>	
 work function	yì chū gōng
<i>/wɜ:k 'fʌŋkʃn/</i>	
Young's double-slit	yáng shì shuāng fèng
zeroth law of thermody- namics	rè lì xué dì líng dìng lǚ