

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 <i>/ˌævəˈɡædrəʊ ˈkɒnstənt/</i>	ā fú gā dé luó cháng shù
battery <i>/'bætəri/</i>	diàn chí
 beat frequency <i>/bi:t ˈfri:kwənsi/</i>	pāi pín
 beats <i>/bi:ts/</i>	pāi
 beta <i>/'bi:tə/</i>	bèi tă
 Beta decay <i>/'bi:tə dr'keɪ/</i>	bèi tă shuāi biàn
 blackbody <i>/'blækbɒdi/</i>	hēi tǐ
 Bohr model <i>/'bəʊə ˈmɒdl/</i>	bō ěr mó xíng
Boltzmann constant <i>/'bɒltzmən ˈkɒnstənt/</i>	bō ěr zī màn cháng shù
 brightness <i>/'braɪtnəs/</i>	liàng dù
 capacitance <i>/kə'pæsɪtəns/</i>	diàn róng
 capacitor <i>/kə'pæsɪtə/</i>	diàn róng qì
centripetal force <i>/sen'trɪptl fɔ:s/</i>	xiàng xīn lì
charge quantization	diàn hè liàng zǐ huà
circle <i>/'sɜ:kl/</i>	yuán xíng
 circuit <i>/'sɜ:kit/</i>	diàn lù
closed loops	bì hé huí lù
= Coherent <i>/kəʊ'hɪərənt/</i>	xiāng gān
compass <i>/'kæmpəs/</i>	zhǐ nán zhēn
 Compton scattering <i>/'kɒmptn ˈskætərɪŋ/</i>	kāng pǔ dùn sǎn shè
concave <i>/kɒn'keɪv/</i>	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'venʃənəl '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 dìng 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>/ˌdaɪəməg'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'spɛrɪmənt/</i>	shuāng fèng shí yàn
efficiency <i>/ɪ'fɪʃənsi/</i>	xiào lǜ
 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 lǜ
electrical energy <i>/ɪ'lektrɪkl 'enədʒi/</i>	diàn néng
 electromagnetic induction <i>/ɪˌlektərəməg'netɪk ɪn'dʌkʃn/</i>	diàn cí gǎn yìng

English	Pinyin
electromagnetic spectrum <i>/ɪˌlektərəmæg'netɪk 'spektrəm/</i>	diàn cí bō pǔ
 electromagnetic wave <i>/ɪˌlektərəmæg'netɪk weɪv/</i>	diàn cí bō
 electron <i>/ɪ'lektɹən/</i>	diàn zǐ
elementary charge <i>/ˌeli'mentəri tʃɑːdʒ/</i>	jī běn diàn hè
emf <i>/emf/</i>	diàn dòng shì
 emission spectrum <i>/ɪ'mɪʃn 'spektrəm/</i>	fā shè guāng pǔ
energy <i>/'enədʒi/</i>	néng liàng
 energy levels <i>/'enədʒi 'levlz/</i>	néng jí
energy quantization	néng liàng liàng zǐ huà
energy stored <i>/'enədʒi stɔːd/</i>	chǔ cún de néng liàng
 entropy <i>/'entrəpi/</i>	shāng
 equivalent resistance <i>/ɪ'kwɪvələnt rɪ'zɪstəns/</i>	děng xiào diàn zǔ
 Faraday's law <i>/'færədeɪz lɔː/</i>	fǎ lǎ dì dīng lǜ
farads	fǎ lǎ
 Ferromagnetic <i>/ˌferəmæg'netɪk/</i>	tiě cí xìng
field lines <i>/fiːld laɪnz/</i>	diàn chǎng xiàn
 first law <i>/fɜːst lɔː/</i>	rè lì xué dì yí dīng lǜ
 first law of thermodynamics <i>/fɜːst lɔː ɒv θɜːməʊdaɪ'næmɪks/</i>	rè lì xué dì yí dīng lǜ
 fission <i>/'fɪʃn/</i>	liè biàn

English	Pinyin
 frequency <i>/ˈfri:kwənsi/</i>	pín lǚ
friction <i>/ˈfri:kʃn/</i>	mó cā qǐ diàn
 fusion <i>/ˈfju:ʒn/</i>	jù biàn
 gamma <i>/ˈgæmə/</i>	gā mǎ
 Gamma decay <i>/ˈgæmə diˈkeɪ/</i>	gā mǎ shuāi biàn
generator <i>/ˈdʒenəreɪtə/</i>	fā diàn jī
 Geometric optics <i>/ˌdʒi:əvˈmetrɪk ˈɒptɪks/</i>	jǐ hé guāng xué
ground <i>/graʊnd/</i>	jiē dì
 half-life <i>/hɑ:f laɪf/</i>	bàn shuāi qī
 heat <i>/hi:t/</i>	rè liàng
heat engine	rè jī
 ideal gas <i>/aɪˈdɪəl gæs/</i>	lǐ xiǎng qì tǐ
 ideal gas law <i>/aɪˈdɪəl gæs lɔ:/</i>	lǐ xiǎng qì tǐ dìng lǚ
 index of refraction <i>/ˈɪndeks ɒv rɪˈfrækʃn/</i>	zhé shè lǚ
 induction <i>/ɪnˈdʌkʃn/</i>	gǎn yìng qǐ diàn
 insulator <i>/ˈɪnsju:lɪtə/</i>	jué rè tǐ
 intensity <i>/ɪnˈtensɪti/</i>	qiáng dù
 internal energy <i>/ɪnˈtɜ:nl ˈenədʒi/</i>	nèi néng
internal resistance <i>/ɪnˈtɜ:nl rɪˈzɪstəns/</i>	nèi zǔ
inverse-square <i>/ɪnˈvɜ:s skweə/</i>	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>/ˈkɜːkhhɒfs ˈdʒʌŋkʃn ruːl/</i>	jī ěr huò fū jié diǎn dòng lǚ
 Kirchhoff's loop rule <i>/ˈkɜːkhhɒfs luːp ruːl/</i>	jī ěr huò fū huí lù dòng lǚ
 law of reflection <i>/lɔː vɪ rɪˈflekʃn/</i>	fǎn shè dòng lǚ
length <i>/leŋθ/</i>	cháng dù
 Lenz's law <i>/ˈlentsɪz lɔː/</i>	léng cì dòng lǚ
 lepton number <i>/ˈlepton ˈnʌmbə/</i>	qīng zǐ shù
 light bulb <i>/laɪt bʌlb/</i>	dēng pào
 Longitudinal <i>/ˌlɒŋɡɪˈtʃuːdɪnl/</i>	zòng bō
 longitudinal wave <i>/ˌlɒŋɡɪˈtʃuːdɪnl 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>/mæg'netik fi:ld laɪnz/</i>	cí gǎn xiàn
 magnetic flux <i>/mæg'netik flæks/</i>	cí tōng liàng
 magnetic force <i>/mæg'netik fɔ:s/</i>	cí lì
magnetic monopole	cí dān jí zì
magnification <i>/,mægnɪfɪ'keɪʃn/</i>	fàng dà lǚ
mass <i>/mæs/</i>	zhì liàng
mass spectrometer <i>/mæs spek'trɒmɪtə/</i>	zhì pǔ yí
mirror equation	miàn jìng gōng shì
molecules <i>/'mɒlɪkjʊ:lz/</i>	fēn zǐ
moles <i>/məʊlz/</i>	mó ěr
momentum <i>/məʊ'mentəm/</i>	dòng liàng
MRI	cí gòng zhèn
negative <i>/'negətɪv/</i>	fù de
neutral <i>/'nju:trəl/</i>	zhōng xìng
• neutrino <i>/nju:'tri:nəʊ/</i>	zhōng wēi zì
no isolated poles	wú gū lì cí jí
 nodes <i>/nəʊdz/</i>	bō jié
 nonideal <i>/,nɒnaɪ'diəl/</i>	fēi lǐ xiǎng
north pole <i>/nɔ:θ pəʊl/</i>	běi jí
 nucleus <i>/'nju:klɪəs/</i>	yuán zǐ hé
 Ohm's law <i>/əʊmz lɔ:/</i>	ōu mǔ dìng lǚ

English	Pinyin
ohmic <i>/ˈəʊmɪk/</i>	ōu mǔ xìng
= parallel <i>/ˈpærələl/</i>	píng xíng
 parallel circuit <i>/ˈpærələl ˈsɜːkɪt/</i>	bìng lián
parallel-plate capacitor <i>/ˈpærələl pleɪt kəˈpæsɪtə/</i>	píng xíng bǎn diàn róng qì
 Paramagnetic <i>/ˌpærəˈmæɡˈnetɪk/</i>	shùn cí xìng
period <i>/ˈpɪəriəd/</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>/ˌfəʊtəʊˈlektɪk 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>/pə'tenʃl 'dɪfrəns/</i>	diàn shì chà
 Pressure <i>/'preʃə/</i>	yā qiáng
pressure–volume graph	yā róng tú
principle of superposition <i>/'prɪnsɪpl ɒv 'su:pəpə'zɪʃn/</i>	dié jiā yuán lǐ
proton <i>/'prəʊtɒn/</i>	zhì zǐ
 quanta <i>/'kwɒntə/</i>	liàng zǐ
 Radiation <i>/ˌreɪdɪ'eɪʃn/</i>	fú shè
 radioactive decay <i>/ˌreɪdɪəʊ'æktɪv dɪ'keɪ/</i>	fàng shè xìng shuāi biàn
radius <i>/'reɪdɪəs/</i>	bàn jìng
ray	guāng xiàn
 RC circuit <i>/ˌɑː 'siː 'sɜːkɪt/</i>	RC diàn lù
 real image <i>/rɪəl 'ɪmɪdʒ/</i>	shí xiàng
redshift <i>/'redʃɪft/</i>	hóng yí
 refraction <i>/rɪ'frækʃn/</i>	zhé shè
repel <i>/rɪ'pel/</i>	pái chì
 resistance <i>/rɪ'zɪstəns/</i>	diàn zǔ
 resistivity <i>/ˌriːzɪ'stɪvəti/</i>	diàn zǔ lǜ
right-hand rule <i>/raɪt hænd ruːl/</i>	yòu shǒu dìng zé
 second law <i>/'sekənd lɔː/</i>	rè lì xué dì èr dìng lǜ

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

English	Pinyin
 thin film <i>/θɪn fɪlm/</i>	báo mó
thin-film interference	báo mó gān shè
thin-lens equation	báo tòu jìng fāng chéng
threshold frequency <i>/'θreʃəʊld 'fri:kwənsi/</i>	jié zhǐ pín lǜ
thumb	mǔ zhǐ
time constant <i>/taɪm 'kɒnstənt/</i>	shí jiān cháng shù
 total internal reflection <i>/'təʊtl ɪn'tɜːnl rɪ'flekʃn/</i>	quán nèi fǎn shè
transformer <i>/træns'fɔːmə/</i>	biàn yā qì
translational <i>/træn'sleɪʃnl/</i>	píng dòng
 Transverse <i>/træns'vɜːs/</i>	héng bō
 transverse wave <i>/træns'vɜːs weɪv/</i>	héng bō
uniform field <i>/'juːnɪfɔːm 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>/'vektə fiːld/</i>	shǐ liàng chǎng
vector sum <i>/'vektə sʌm/</i>	shǐ liàng hé
velocity <i>/və'ləsɪti/</i>	sù dù
 virtual image <i>/'vɜːtʃuəl 'ɪmɪdʒ/</i>	xū xiàng
 voltage <i>/'vɒltɪdʒ/</i>	diàn yā
 voltmeter <i>/'vɒltmi:tə/</i>	diàn yā biǎo
volts <i>/vɒlts/</i>	fú tè

English	Pinyin
 wave /weɪv/ wave equation wave polarization	bō bō dòng fāng chéng piān zhèn
 wave speed /weɪv spiːd/ wave-particle duality /weɪv 'pɑːtɪkl djuː'ælɪti/	bō sù bō lì èr xiàng xìng
 wavelength /'weɪvlɛŋθ/	bō cháng
 Wave-particle duality /weɪv 'pɑːtɪkl djuː'ælɪti/	bō lì èr xiàng xìng
webers /'veɪbəz/	wéi bó
Wien's law	wéi ēn dìng lǚ
work /wɜːk/	gōng
 work function /wɜːk 'fʌŋkʃn/	yì chū gōng
Young's double-slit	yáng shì shuāng fèng
zeroth law of thermodynamics	rè lì xué dì líng dìng lǚ