

# thesaurus

1979



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### INTRODUCTION

The INSPEC Thesaurus, first published in 1973, had been developed and extended in the intervening years and now contains approximately 9000 terms, of which some 5200 are preferred terms and 3800 are crossreference or 'lead-in terms.

The Thesaurus is used in indexing all documents added to the INSPEC database which is currently growing at the rate of approximately 150,000 documents per year. The changes and additions to the Thesaurus arise from the requirements of this literature in the fields covered by INSPEC viz. physics, electrical engineering, electronics, computers & control.

### Arrangement of the Thesaurus

The Thesaurus has two parts:-

Alphabetical display of terms

This is the main part of the Thesaurus, listing in a single alphabetical order all terms both 'preferred' and 'lead-in'. Bold type is used to indicate 'preferred' terms. Cross reference or 'lead-in' terms are shown in medium type.

Hierarchical display of terms

This collects the individual terms scattered throughout the main alphabetical display and displays them in families or hierarchies under the top terms (TT) of the hierarchy.

### Structure of entries in the main alphabetical display

A typical entry is shown below:-

domain boundaries

for boundaries between magnetic domains and electric domain see magnetic domain walls and electric domains walls respectively see also antiphase boundaries

antiphase boundaries

BT crystal microstructure

solid structure

TT RT domains

A8130 A8140

a8130-e a8140-m

Under each preferred term (indicated by bold type) three sorts of information are given

'see also' references

these are in italics and indicate related thesaurus terms used as cross references in the printed subject indexes to the INSPEC abstracts journals.

these show other terms in the thesaurus which are related to the given term. The type of relationship is shown and may be either

hierarchical:

NT narrower i.e. more specific term

BT broader i.e. more general term

TT top term i.e. highest or most general term of the hierarchy

related term. This covers a range of non-hierarchical relationships, for example, partwhole relationships

electron tubes

RT electron tube components

or object-property or phenomena relationships

RT atomic spectra

It should be noted that in the hierarchical relationships, BT and NT, only terms one level up and down the hierarchy are shown.

classification codes

these are codes from the INSPEC classification scheme and indicate the subject area in which the Thesaurus term is commonly used. There are two versions of the code

version of the code as used in the INSPEC Magnetic Tape Services

FC full form of code as input to the INSPEC database

### USE and Used For relationships

Where alternative terms, synonyms or alternative spellings exist for a given term, only one form will be chosen and reference made from the alternatives. This is done by the USE reference

e.g. grounding
USE earthing
cesium
USE caesium
AFC
USE automatic frequency control

In some cases a particular concept may be represented by more than one term. In such a case both terms are shown coupled by a +

e.g. magnetostructive transducers
USE magnetostructive devices + transducers

For each case where a USE reference is made, the preferred term will show any non-preferred terms which reference is made. This is done by means of the UF (Used For) indicator

e.g. caesium UF cesium

## Form of spelling

Where alternative English or American spellings exist, the English spelling is adopted. Reference is made from the American form.

### Alphabetical arrangement

Arrangement of entries is made alphabetically on the 'word-by-word' or 'nothing-before-something' principle. For example, the term 'dielectrics' follows all terms beginning 'dielectric'.

e.g. dielectric susceptibility dielectric thin films dielectric waveguides dielectrics

It should be noted that certain classes of semiconductor materials use roman numerals e.g. II-VI semiconductors.

These numerals are represented as letters e.g. II-VI and are arranged accordingly, appearing in the I section of the Thesaurus.

### Homographs

Where a term included in the Thesaurus may have two quite distinct meanings, the meanings are defined by qualifiers placed after the term in parenthesis

e.g. bonds (chemical) bonds (adhesive) adhesion

The qualifier is considered to be part of the term.

electromagnetic wave absorption

absorption cont. 1/f noise electron absorption USE random noise hyperon absorption meson absorption A-centers USE A-centres neutron absorption proton absorption damping A-centres fading reflection UF A-centers F.-centers sorption F.-centres transmission F-centres crystal defects absorption spectra USE spectra energy states impurity electron states
A6170D A7155 A7630M A7850
a6170Dt a7155 -h a7630Mg a7850 -p absorption wavemeters USE wavemeters A/D conversion USE analogue-digital conversion abstracting
BT information analysis ab initio calculations computer applications RT atomic structure C7240 c7240 + j electron energy states (condensed matter) molecular energy level calculations A3120D A3120E A3120G A7100 a3120Dn a3120Eq a3120Gv a7100-s abundance ratio USE element relative abundance isotope relative abundance USE nomograms Ac USE actinium aberrations in optics and particle optics only see also lenses; optical instrument testing; particle optics astigmatism barrel distortion a.c. generators see also asynchronous generators; synchronous generators chromatic aberration NT asynchronous generators synchronous generators curvature of field a.c. machines optical aberrations electric generators electric machines pincushion distortion Seidel theory spherical aberration aspherical lenses machine bearings machine insulation RT lenses machine theory optical images machine windings optical instrument testing rotors stators B8310 B8340 optics particle optics
A4230F A4278 B4190 a4230Fb a4278 - j b4190 - m b8310 -g b8340 +r a.c. machines abrasion see also a.c. generators; a.c. motors; asynchronous machines; synchronous machines see also hardness; wear UF abrasive wear a.c. generators rubbing (abrasion) scrubbing (abrasion) a.c. motors asynchronous machines scuffing wear, abrasive synchronous machines BT electric machines diamond electric machines friction machine bearings grinding hardness machine insulation machine testing polishing machine theory machine windings A4630P A6220P A8140P a4630Pw a6220Pt a8140Pa rotors stators CC FC B8310 B8340 abrasive wear 68310 -g 68340 +r USE abrasion absolute gravity a.c. motors synchronous motors NT capacitos see also capacitor motors; commutator motors; induction motors; USE gravity capacitor motors absolute pressure measurement USE pressure measurement commutator motors induction motors synchronous motors absolute temperature a.c. machines USE temperature electric motors electric machines absorbers (surge) machine bearings USE surge protection machine insulation machine testing machine theory machine windings for absorption of substances see sorption rotors see also acoustic wave absorption; electromagnetic wave absorption attenuation B8310 B8340 C3260B b8310 -g b8340 +r c3260Bn NT acoustic wave absorption alpha-particle absorption beta-ray absorption cosmic ray absorption a.c. network analysers

USE network analysers

- acceleration	heautic analysis
acceleration	RT acoustics
see also acceleration control; acceleration measurement; accelerometers  BT kinematics	CC A4300
TT mechanics	FC a4300 - z
RT acceleration control	IC 44500 Z
acceleration measurement	and the small makes
accelerometers	acoustic applications
dynamics	see also ultrasonic applications
CC A0320	NT ultrasonic applications
FC a0320 + v	RT acoustic wave effects
	acoustics
	materials testing
acceleration control	CC A4300 B7820
see also acceleration measurement	FC $a4300 - z b7820 + x$
BT mechanical variables control	
TT control of specific variables	acoustic arrays
RT acceleration	BT acoustic equipment
acceleration measurement	TT acoustic equipment
accelerometers	RT nonlinear acoustics
velocity control	underwater sound
CC C3120E	CC A4325 A4385 B7810
FC c3120Ec	FC a4325 + d a4385 + z b7810 - c
acceleration measurement	acoustic delay lines
see also acceleration control	see also ultrasonic delay lines
BT measurement	NT ultrasonic delay lines
TT measurement	BT acoustic devices
RT acceleration	delay lines
acceleration control	TT acoustic devices
accelerometers.	networks (circuits)
transducers	CC A4385 B7810
CC A0630G C3120E	FC a4385 + z b7810 - c
FC a0630Gv c3120Ec	rc a4000 + 2 07810 = 0
accelerators (particle)	acoustic detectors
	USE acoustic transducers
USE particle accelerators	· · · · · · · · · · · · · · · · · · ·
	acoustic devices
accelerometers	
see also acceleration measurement	seé also acoustic delay lines; acoustic generators; acoustic microscopes; acoustic microwave devices; acoustic parametric devices; acoustic
BT instruments	nediatore control necessary acoustic parametric aevices; acoustic
transducers	radiators; acoustic receivers; acoustic resonators; acoustic transducers;
TT instruments	bells; surface acoustic wave devices; ultrasonic devices
transducers	NT acoustic delay lines
RT acceleration	acoustic generators
acceleration control	acoustic microscopes
acceleration measurement	acoustic microwave devices
velocity measurement	acoustic parametric devices
CC A0630G A0710 C3120E	acoustic radiators
FC = a0630Gv a0710 + k c3120Ec	acoustic receivers
	acoustic resonators
accidents	acoustic transducers
	acousto-optical devices
see also electric shocks; explosions; safety NT - electric shocks	acoustoelectric devices
	bells
RT alarm systems electrical faults	surface acoustic wave devices
	ultrasonic devices
explosions	RT acoustic equipment
fires	acoustic variables measurement
fission reactor safety	acoustic waveguides
medicine	acoustics
nuclear explosions	audio equipment
salety	audio recording
CC A0100 B0160 C0100 C0200	audio systems
FC = a0100 or b0160 + v c0100 of c0200 os	sonar
	sound reproduction
accommodation coefficient	CC A4360 A4385 A4388 B7810
USE sorption	FC $a4360 + g a4385 + z a4388 + q b7810 - c$
	5
accounts data processing	acquesta disessed
CF computing applications to accounting	acoustic dispersion
computing applications to billing	see also ultrasonic dispersion
BT financial data processing	UF acoustic wave attenuation
TT computer applications	NT ultrasonic dispersion
CC C7120	BT dispersion (wave)
FC c7120+g	TT dispersion (wave)
10 C120 g	RT acoustic wave diffraction
	acoustic wave propagation
accumulation layers	acoustic wave refraction
RT metal-insulator-semiconductor structures	acoustic wave scattering
surface electron states	acoustic wave velocity
CC A7320 A7340Q B2530F	acoustics
FC = a7320 = g a7340Qm b2530Fc	CC A4320 A4325 A4328 A4330 A5140 A6260 A6265
	$^{\text{HC}}$ a4320+b a4325+d a4328+v a4330+j a5140+g a6260+v
accumulators	a6265 + a
USE secondary cells	
COL ACCORDARY CERTS	accustic achoes
	acoustic echoes
widity	USE echo
USE pH	
	acoustic emission
icids, inorganic	see also ultrasonic materials testing
see individual compounds and hydrogen compounds	RT acoustic superradiance
compounds and nearogen compounds	acoustic waves
and the second s	ultrasonic materials testing
icids, organic	CC A4335 A4390 A8170 B9790
USE organic compounds	FC a4335 +1 a4390 + e a8170 + x b0590 + q
	= = = = = = = = = = = = = = = = = = =

	c equipment also acoustic arrays; acoustic wave interferometers; ultrasonic		intensity measurement cont. a4385 + z c3120Zy
	ipment		·
	acoustic arrays	aconstic	nngnetic resonance
	acoustic wave interferometers		also acoustic nuclear magnetic resonance; acoustic paramagnetic
	ultrasonic equipment		nance
RT	acoustic devices	NT	acoustic nuclear magnetic resonance
	acoustic microscopes		acoustic paramagnetic resonance
	acoustics	BT	acoustic wave effects
	audio equipment		magnetic resonance
	audio recording	TT	radiation effects
	audio systems sonar		resonance
	sound reproduction	cc	
cc	A4385 B7810	FC	a7600 - c
PC	a4385 + z b7810 - c		
	2.000 2.0.010		measurements
acousti	n Sald	USE	acoustic variables measurement
UF			
RT		acoustic	microscopes
	acoustic radiators	BT	acoustic devices
	acoustics		microscopes
cc	A4320 A4325 B7800	TT	acoustic devices
FC			instruments
	4 1940 · O 4 1949 · G 0 1960 · V	RT	acoustic equipment
			acoustic imaging
	c generators	CC	
see	also earphones; loudspeakers; photoacoustic effect	FC	a4385 + z b7810 - c
Ur	electroacoustic generators		
	generators, acoustic	acoustic	microwave devices
<b></b>	sound generators		also acoustic transducers; surface acoustic wave devices
	loudspeakers		microwave acoustic devices
BT		ВT	acoustic devices
TT	acoustic devices	٠.	microwave devices
KI	acoustic radiators	TT	acoustic devices
	acoustics	• • •	microwave devices
	acoustoelectric effects	RT	acoustics
	alarm systems	K1	
	noise generators		solid-state microwave devices
	photoacoustic effect	~~	ultrasonic transducers
$\propto$	A4330 A4388 B7810		B2860C
FC	a4330 + j a4388 + q b7810 - c	FC	b2860Ce
acoustic	: holography		mode of crystals
	acoustic imaging	USE	lattice dynamics
	holography		
π		acoustic	noise
	holography	UF	noise levels, acoustic
RT		BT	noise
cc	A4363 B4350 B7820	TT	noise
	a4363 + y b4350 + s b7820 + x	RT	
	y 0.000 10.000 X		acoustic variables measurement
	. Imandus		acoustic wave interference
	: imaging		acoustics
	also acoustic holography apodisation		architectural acoustics
Or			hearing
	apodization		noise measurement
NT	imaging, acoustic		vibrations
		CC	A4350
K i	acoustic microscopes acoustics	PC	a4350 + z
cc	A4363 A4385		
PC	a4363 + y a4385 + z		noise measurement
		BT	acoustic variables measurement
acoustic	impedance	2000	noise measurement
see'	also acoustic wave velocity	ŢŢ	measurement
	acoustic reactance	RT	noise abatement
	acoustic resistance	cc	A4385 B7320Z
	impedance, acoustic	FC	a4385 + z b7320Zk
RT	acoustic wave velocity		
	acoustics	acoustic	nuclear magnetic resonance
CC	A4300	BT	acoustic magnetic resonance
FC	a4300 - z		nuclear magnetic resonance
		TT	radiation effects
acouetic	insulating materials		resonance
	noise abatement	$\infty$	A7660
USE	noise adatement	FC	a7660 y
			<del>-</del>
	intensity	aconetic	paramagnetic resonance
	also acoustic noise; loudness		apr
UF	sound intensity		ultrasonic paramagnetic resonance
RT	acoustic noise	BT	
	acoustic variables measurement	51	acoustic magnetic resonance paramagnetic resonance
	acoustics	TT	radiation effects
_	loudness		resonance
$\alpha$	A4300		A7630
PC	84300-z		
		FC	a7630 - a
econett-	Intensity measurement	_	
BT	intensity measurement		parametric amplifiers
DI	acoustic variables measurement	BT	acoustic parametric devices
TT	intensity measurement		parametric amplifiers
	measurement		acoustic devices
RT	acoustic field		networks (circuits)
~	loudness ,		parametric devices
cc	A4385 C3120Z		acoustic wave amplification
			E

acoustic parametric amplifiers cont. acoustic transducers cont A4390 transducers acoustic devices s4390 + c transducers acoustic variables measurement RT acoustic parametric devices
see also acoustic parametric amplifiers; acoustic parametric oscillators acousto-optical effects A4388 B7810C a4388 + q b7810Cm acoustic parametric amplifiers acoustic parametric oscillators acoustic devices parametric devices acoustic variables control see also noise abatement acoustic devices control of specific variables control of specific variables acoustic variables measurement parametric devices A4390 a4390 + e noise abatement C3120Z CC acoustic parametric oscillators c3120Zy BT acoustic parametric devices parametric oscillators acoustic devices acoustic variables measurement networks (circuits) see also acoustic intensity measurement; acoustic noise measurement; parametric devices A4390 acoustic wave velocity measurement; Q factor measurement; ultrasonic measurement a4390 + e acoustic measurements pitch detection sound measurement acoustic radiators acoustic intensity measurement see also acoustic generators; Doppler effect BT acoustic devices acoustic noise measurement acoustic wave velocity measurement acoustic devices ultrasonic measurement acoustic field acoustic generators RT measurement measurement acoustics Doppler effect acoustic devices acoustic intensity acoustic noise loudspeakers radiation
A4320 A4325 B7810
a4320 + b a4325 + d b7810 - c acoustic transducers acoustic variables control acoustic wave interferometry acousto wave propagation acoustic reactance acoustics USE acoustic impedance anechoic chambers magnetostrictive devices acoustic receivers piezoelectric devices Q-factor measurement see also microphones acoustic devices reverberation chambers receivers vibration measurement A4385 C3120Z a4385 + z c3120Zy TT acoustic devices CC FC receivers RT acoustics microphones acoustic velocity A4330 A4385 A4388 B6450 B7810 USE acoustic wave velocity a4330 + j a4385 + z a4388 + q b6450 - w b7810 - c FC acoustic wave absorption acoustic resistance see also noise abatement; ultrasonic absorption USE acoustic impedance UF acoustic wave attenuation ultrasonic absorption acoustic resonators BT absorption BT acoustic devices absorption acoustic wave propagation cavity resonators TT acoustic devices acoustic wave reflection resonators acoustic wave scattering acoustic waves RT acoustics noise ablatement A4320 A4325 A4328 A4335 A4330 A5140 A6260 A6265 a4320 by a4325 + d a4328 + y a4335 + 1 a4330 + j a5140 + g a4300 - zacoustic streaming a6260 + y a6265 + a streaming, acoustic acoustic wave propagation acoustic wave amplification acoustics see also acoustoelectric effects
UF sound amplification radiation pressure A4320 A4700 amplification a4320 + b a4700 - x amplification acoustic parametric amplifiers acoustic wave propagation acoustic superradiance superradiance acoustic waves acoustoelectric effects A4325 A4335 A5140 A6260 A6265 a4325 + d a4335 + I a5140 + g a6260 + y a6265 + a superradiance acoustic emission spin-phonon interactions A6290 CC a6290 + w acoustic wave attenuation USE acoustic dispersion acoustic surface wave devices acoustic wave absorption acoustic wave scattering USE surface acoustic wave devices acoustic wave transmission acoustic surface waves ultrasonic absorption USE surface acoustic waves acoustic wave diffraction see also ultrasonic diffraction NT ultrasonic diffraction acoustic transducers UF acoustic detectors NT acoustic see also acoustoelectric transducers; ultrasonic transducers BT diffraction acoustoelectric transducers TT diffraction ultrasonic transducers acoustic devices acoustic dispersion BT acoustic wave propagation

### acoustic wave diffraction cont. acoustic wave propagation cont. acoustic waves A4320 A4335 A5140 A6260 A6265 a4320 + b a4335 + l a5140 + g a6260 + y a6265 + a sonar speech underwater sound A4320 A4325 A5140 A6260 A6265 a4320 + b a4325 + d a5140 + g a6260 + y a6265 + a acoustic wave diffusion USE acoustic wave scattering acoustic wave reflection see also echo; reverberation; ultrasonic reflection acoustic wave effects see also acoustic magnetic resonance; acousto-optical effects; acoustoelectric effects; biological effects of acoustic radiation; sonoluminescence; ultrasonic effects NT ultrasonic reflection reflection reflection acoustic wave absorption acoustic magnetic resonance acousto-optical effects acoustic wave propagation acoustoelectric effects acoustic waves biological effects of acoustic radiation sonoluminescence architectural acoustics reverberation A4320 A5140 A6260 A6265 a4320 + b a5140 + g a6260 + y a6265 + a ultrasonic effects radiation effects acoustic applications acoustic waves RT acoustic wave refraction A4335 A5140 A6260 A6265 a4335 + 1 a5140 + g a6260 + y a6265 + a see also acoustic dispersion; ultrasonic refraction NT ultrasonic refraction refraction acoustic wave interference refraction see also acoustic wave interferometers; acoustic wave interferometry acoustic dispersion acoustic wave propagation interference (wave) Acoustic waves A4320 A4325 A4330 A4328 A5140 A6260 A6265 a4320 + b a4325 + d a4330 + j a4328 + v a5140 + g a6260 + y interference acoustic noise acoustic wave interferometers acoustic wave interferometry acoustic wave propagation a6265 + a A4320 A4363 A5140 A6260 A6265 a4320 + b a4363 + y a5140 + g a6260 + y a6265 + a acoustic wave scattering see also ultrasonic scattering UF acoustic ways attention acoustic wave attenuation acoustic wave diffusion acoustic wave interferometers ultrasonic scattering see also acoustic wave interferometry scattering acoustic equipment interferometers scattering acoustic dispersion TT acoustic equipment acoustic wave absorption acoustic wave propagation instruments acoustic wave interference acoustic waves A4320 A4325 A5140 A6260 A6265 acoustic wave interferencery acoustic wave propagation acoustic waves A4385 B7810 a4385 + z b7810 - c a4320 + b a4325 + d a5140 + g a6260 + y a6265 + a acoustic wave transmission see also ultrasonic transmission acoustic wave attenuation ultrasonic transmission UF acoustic wave interferometry see also acoustic wave interferometers BT transmission BT interferometry TT transmission interferometry acoustic wave propagation RT acoustic variables measurement acoustic waves acoustic wave interference acoustic wave interferometers architectural acoustics A4320 A4325 A4328 A4330 A5140 A6260 A6265 a4320 + b a4325 + d a4328 + v a4330 + j a5140 + g a6260 + y acoustic wave propagation acoustic waves A4363 A4385 a4363 + y a4385 + z a6265 + aacoustic wave velocity acoustie wave propagation see also acoustic dispersion; atmospheric acoustics; Doppler effect; liquid helium sound propagation; seismic waves; shock waves; surface acoustic waves; ultrasonic propagation; underwater sound see also acoustic dispersion; liquid helium sound propagation; shock waves; ultrasonic velocity acoustic velocity NT ultrasonic velocity UF sonic propagation sound propagation NT liquid helium sound propagation second sound BT velocity velocity acoustic dispersion acoustic impedance acoustic wave propagation ultrasonic propagation acoustic wave velocity measurement wave propagation wave propagation acoustic dispersion acoustic waves liquid helium sound propagation Mach number acoustic streaming acoustic variables measurement A4300 A5140 A6260 A6265 a4300 - z a5140 + g a6260 + y a6265 + a acoustic wave absorption acoustic wave amplification acoustic wave diffraction acoustic wave interference acoustic wave velocity measurement acoustic wave interferometers acoustic wave interferometry see also ultrasonic velocity measurement NT ultrasonic velocity measurement acoustic wave reflection acoustic wave refraction acoustic variables measurement velocity measurement measurement acoustic wave scattering acoustic wave transmission acoustic wave velocity RT acoustic wave velocity A4385 B7320Z acoustic waves atmospheric acoustics a4385 + z b7320Zk Doppler effect oustic waveguides hearing seismic waves BT waveguides waveguides shock waves acoustic devices

```
acoustics cont.
  coustic waveguides cont.
CC A4320 A4385 B7810
                                                                                                                sound reproduction
                                                                                                                speech recognition
           a4320 + b a4385 + z b7810 - c
                                                                                                                 vibrations
                                                                                                                A4300
acoustic waves
                                                                                                                a4300 - z
    see also acoustic emission; magnetoacoustic effects; shock waves; surface
     acoustic waves; ultrasonic waves
           infrasonic waves
                                                                                                     acousto-optical devices
                                                                                                         see also acousto-optical effects
BT acoustic devices
           sound
            sound waves
           magnetoacoustic effects
                                                                                                                acoustic devices
           shock waves
                                                                                                                acousto-optical effects
            surface acoustic waves
                                                                                                                optoelectronic devices
           ultrasonic waves
                                                                                                         CC
FC
                                                                                                                PA170
           elastic waves
                                                                                                                h4170 + i
           waves
           acoustic emission
           acoustic wave absorption
                                                                                                     acousto-optical effects
           acoustic wave amplification
acoustic wave diffraction
acoustic wave effects
                                                                                                          see also acousto-optical devices
                                                                                                               acoustooptics
acoustic wave effects
            acoustic wave inte-ference
                                                                                                                 optical properties of substances
           acoustic wave interferometers
                                                                                                                optical properties of substances radiation effects
           acoustic wave interferometry
           acoustic wave propagation acoustic wave reflection
                                                                                                                acoustic transducers
                                                                                                                 acoustics
            acoustic wave refraction
                                                                                                                 acousto-optical devices
            acoustic wave scattering
                                                                                                                 lasers
            acoustic wave transmission
                                                                                                                light coherence
optical modulation
            acoustic wave velocity
                                                                                                                 optoelectronic devices
            acoustics
            Doppler effect
                                                                                                                 ultrasonics
            hearing
                                                                                                                 A5140 A5170 A7820H
           lattice dynamics
                                                                                                                 a5140 + g a5170 + e a7820Hm
            musical acoustics
           phonons
                                                                                                     acoustoelasticity
            .
redistion
           A4300 A5140 A6260 A6265
a4300 - z a5140 + g a6260 + y a6265 + a
                                                                                                          USE elasticity
                                                                                                     acoustoelectric devices
acoustical laboratories
                                                                                                         see also acoustoelectric transducers
NT acoustoelectric transducers
    see also anechoic chambers; reverberation chambers
           laboratories
                                                                                                                 acoustic devices
    TT
           laboratories
                                                                                                         TT
                                                                                                                 acoustic devices
           acoustics
                                                                                                                B6450
                                                                                                         cc
            anechoic chambers
                                                                                                                 b6450 -
           reverberation chambers
           testing
A4385 A4300
    CC
                                                                                                     acoustoelectric effects
    FC
           a4385 + z a4300 - z
                                                                                                                electroacoustic effects acoustic wave effects
                                                                                                          UF
                                                                                                         BT
                                                                                                                 electric field effects
acoustics
   see also acoustic applications; acoustic devices; acoustic equipment; acoustic noise; anechoio chambers; architectural acoustics; atmospheric acoustics; audio acoustics; hearing; musical acoustics; photoacoustic effect; sound reproduction; ultrasonics; underwater scund; vibrations UF sound
                                                                                                                 electric field effects
                                                                                                                 radiation effects
                                                                                                                acoustic generators acoustic wave amplification
                                                                                                                 acoustics
           architectural acoustics
                                                                                                                 domains
                                                                                                                 phonon drag
piezoelectric semiconductors
           atmospheric acoustics
           audio acoustics
                                                                                                                 semiconductor materials
           musical acoustics
           nonlinear acoustics
                                                                                                                 semiconductors
                                                                                                                 A4388 A5140 A5150 A7250
           ultrasonics
           underwater sound
                                                                                                                a4388 + q a5140 + g a5150 + p a7250 + e
           acoustic analysis
acoustic applications
acoustic devices
                                                                                                     acoustoelectric transducers
                                                                                                         see also earphones; headphones; hydrophones; loudspeakers; microphones NT earphones
           acoustic dispersion
           acoustic equipment acoustic field
                                                                                                                 headphones
           acoustic generators
acoustic holography
                                                                                                                hydrophones
loudspeakers
           acoustic imaging
                                                                                                                 microphones
                                                                                                                acoustic transducers
acoustoelectric devices
           acoustic impedance
                                                                                                         BT
           acoustic intensity
                                                                                                                 acoustic devices
           acoustic microwave devices
           acoustic noise
acoustic radiators
acoustic receivers
                                                                                                                 transducers
                                                                                                                telephone sets
                                                                                                                B6450 B7810C
                                                                                                                b6450 - w b7810Cm
           acoustic resonators
           acoustic streaming
           acoustic variables measurement
           acoustic waves
acoustical laboratories
                                                                                                    acoustooptics
USE acousto-optical effects
           acousto-optical effects
           acoustoelectric effects
                                                                                                    actinide alloys
           anechoic chambers
           harmonics
                                                                                                         see also actinide compounds; plutonium alloys; uranium alloys
           hearing
                                                                                                                plutonium alloys
           loudness
                                                                                                                uranium alloys
           photoacoustic effect
                                                                                                                alloys
           reverberation chambers
                                                                                                                allovs
                                                                                                                actinide compounds
           shock waves
```

```
active networks cont.
actinide compounds
                                                                                               impedance convertors
   see also compounds of individual actinides, e.g. uranium compounds
                                                                                                negative impedance convertors
    see also actinide alloys
UF actinide metal compounds
                                                                                               networks (circuits)
                                                                                                networks (circuits)
         actinium compounds
         americium compounds
berkelium compounds
                                                                                         RT
                                                                                                demodulators
                                                                                                modulators
                                                                                         CC
FC
                                                                                               B1270E
         californium compounds
                                                                                               b1270Ef
         curium compounds
einsteinium compounds
          fermium compounds
                                                                                      active nitrogen
         lawrencium compounds
                                                                                         USE nitrogen
         mendelevium compounds
          neptunium compounds
                                                                                      active oxygen
         nobelium compounds
                                                                                         USE oxygen
         plutonium compounds
          protactinium compounds
          thorium compounds
                                                                                         see also electric actuators
NT electric actuators
         uranium compounds
         actinide alloys
                                                                                                control equipment
         actinides
                                                                                               control equipment electromagnets
actinide metal compounds
                                                                                                servomechanisms
    USE actinide compounds
                                                                                                servomotors
                                                                                                starting
actinide metals
   USE actinides
                                                                                                valves
                                                                                                C3260B
actinides
                                                                                                c3260Bn
    see also individual actinides, e.g. uranium
         actinide metals
                                                                                      adaptive control
          actinium
                                                                                          see also adaptive optics; adaptive systems; model reference adaptive control
                                                                                         systems
NT ac
          berkelium
                                                                                               adaptive optics
         californium
                                                                                                automatic control
          curium
                                                                                                automatic control
          einsteinium
                                                                                                adaptive systems
          fermium
                                                                                                artificial intelligence
          lawrencium
                                                                                                biocybernetics
          mendelevium
                                                                                                cognitive systems
          neptunium
                                                                                                compensation
          nobelium
                                                                                                control theory
          plutonium
                                                                                                learning systems
          protactinium
                                                                                                model reference adaptive control systems
                                                                                                self-adjusting systems
          uranium
    RT
         actinide compounds
                                                                                                c1340En
actinium
                                                                                      adaptive optics
    see also nuclei with .....
                                                                                          BT
         Ac
actinides
                                                                                                adaptive control
    UF
    BT
                                                                                                optics
          actinides
                                                                                                automatic control
    RT
          actinium compounds
                                                                                                optics
                                                                                                adaptive systems
                                                                                                optical systems
A4200 C1240 C1340E
actinium compounds
         actinide compounds
    BT
                                                                                                a4200 - m c1240 + z c1340En
    TT
RT
          actinide compounds
          actinium
                                                                                          see also adaptive control; adaptive optics; cognitive systems; learning
actinometers
    USE radiometers
                                                                                          systems; model reference adaptive control systems; pattern recognition;
                                                                                           self-adjusting systems
                                                                                                self-adjusting systems
actinometry
                                                                                                control systems
    USE. radiometry
                                                                                          TT
                                                                                                control systems
                                                                                          RT
                                                                                                adaptive control
activation analysis
                                                                                                adaptive optics
artificial intelligence
    USE chemical analysis by nuclear reactions and scattering
                                                                                                automata theory
active antennas
                                                                                                 cognitive systems
    BT antennas
                                                                                                cybernetics
          antennas
B5260 B5270
                                                                                                learning systems
C1240 C1340E
c1240 + z c1340En
          b5260 + c b5270 - y
active circuits
    USE active networks
                                                                                          ŲF
                                                                                                binary adders
                                                                                                carry circuits half adders
active filters
                                                                                                digital circuits
    BT
          active networks
          filters
                                                                                                networks (circuits)
                                                                                                carry logic
          networks (circuits)
          B1270E
                                                                                                 counting circuits
    FC
          b1270Ef
                                                                                                logic circuits
                                                                                                shift registers
                                                                                                summing circuits
C5120
    see also active filters; gyrators; impedance convertors; negative impedance
                                                                                                c5120 + d
    convertors
          'active circuits
    NT active filters
                                                                                      adding machines
          gytators
                                                                                          USE calculating apparatus
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adherence advertising RT advertising data processing USE adhesion C7190 c7190 + k adhesion HE adherence bonds (adhesive) advertising data processing tackiness computing applications to advertising, marketing data processing joining processes surface phenomena computer applications wetting A8190 RT advertising a8190 + mc7190 + k adhesion aerial cableway systems electrostatics USE cableway systems Johnsen-Rahhek effect adiabatic compression, plasma aerials USE plasma heating USE antennas adiabatic demagnetisation USE magnetic cooling acrodromes USE airports USE adsorption aerodynamics see also hypersonic flow; jets; shock waves; supersonic flow; transonic flow; turbulence; wind tunnels administrative data processing gas dynamics fluid dynamics see also distributive data processing; educational administrative data processing; financial data processing; logistics data processing; management information systems; manufacturing data processing; marketing data processing; medical administrative data processing; reservation computer systems; word processing mechanics aircraft boundary layers ADP hydrodynamics computing applications to business data processing (administrative) distributive data processing educational administrative data processing hypersonic flow shock waves educational administrative data pr financial data processing logistics data processing management information systems manufacturing data processing marketing data processing supersonic flow transonic flow turbulence wind tunnels a4740 - c medical administrative data processing reservation computer systems word processing computer applications aeronomy USE meteorology terrestrial atmosphere commerce upper atmosphere management management science C7100 aerosols c7100 -e see also foams
BT disperse s disperse systems disperse systems admittance, electric USE electric admittance RT dust sprays A4755K A9200 A8270R admittance, electric, measurement a4755Kp a9200 - h a8270Rp USE electric admittance measurement aerospace USE administrative data processing aerospace computing; aerospace control; aerospace instrumentation; aerospace propulsion; aerospace simulation; aerospace test facilities; aircraft; ground support systems; space research; space vehicles; terrestrial atmosphere ADP (ammonium dihydrogen phosphate) USE ammonium compounds RT aerospace computing aerospace control adsorbed layers aerospace instrumentation see also monolayers
RT adsorption aerospace propulsion aerospace simulation films aerospace test facilities Langmuir films aircraft liquid films ground support systems monolayers helicopters Surface phenomena A6845 A8265M a6845 v a8265My space research space vehicles B7600 C3360L C7460 b7600 - w c3360Lx c7460 + y adsorption see also heat of adsorption aerospace applications of computing adion USE acrospace computing sorption surface phenomena adsorbed layers serospace computer control getters see also aerospace computing; air traffic computer control

NT air traffic computer control heat of adsorption interface phenomena transport computer control computer applications surface phenomena wetting A6845 A8265M aerospace computing C3360L C7460 RT a6845 v a8265My c3360Lx c7460 + y

	nce computing	AF		
	also aerospace computer control; transport computer control		USE	automatic frequency control
UF	aerospace applications of computing			•
ВТ	computing applications to aerospace engineering	aft	erglov	ws
	engineering computing		RŤ	discharges (electric)
TT	computer applications			light scattering
RT	aerospace			luminescence
	aerospace computer control			phosphorescence
	aerospace simulation		CC	A5280H B2315
~	transport computer control C7460		FC	a5280Hh b2315+1
CC				
FC	c7460 + y			
		Ag	nee	silver
веговра	ace control		USE	silver
	also air traffic control; attitude control			
NT	air traffic control	AC	ЭC	
	attitude control		USE	automatic gain control
RT	aerospace			
	aerospace instrumentation •		(East	
	aerospace simulation	ago	Eart	
	aircraft		USE	geochronology
	control systems			
	helicopters	age	e deter	mination, radioactive
$\alpha$				radioactive dating
FC	c3360Lx			•
	·	900	hard	enina
nerospa	nce engines	age	harde	
BŤ	engines		USE	precipitation hardening
ΤΤ	engines			
RT		age	eing	,
CC			see a	lso precipitation hardening; strain againg
PC	c3360Lx b7640 + n	,	UF	ageing characteristics
. ~				aging
			NT	strain ageing
	ce ground equipment			alloys
USE	ground support equipment			heat treatment
	•			metallurgy
oerome.	ce instrumentation			phase transformations
	also aircraft instrumentation; Langmuir probes			precipitation
NT	aircraft instrumentation			precipitation hardening
BT	instrumentation			A8140G
ΤŤ	instrumentation		FC	a8140Gf
RT				
κ,	aerospace			
	aerospace control aircraft			naracteristics
	altimeters		USE	ageing
	helicopters	agii	nø	
	Langmuir probes	agiı		ageing
	Langmuir probes radio direction-finding			ageing
	Langmuir probes radio direction-finding space vehicles	-	ŬSE	•
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CC FC	Langmuir probes radio direction-finding space vehicles	agr	ÜSE icultu see ai	re Iso farming
	Langmuir probes radio direction-finding space vehicles B 7630	agr	USE icultu see al NT	re Iso farming farming
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FC aerospa	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t	agr	USE icultu see ai NT RT	re Iso farming farming deirying electric fences
FC aerospa	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines	agr	USE icultu see al NT RT	re Iso farming farming dairying electric fences natural resources
FC serospa	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion	<b>ag</b> r	icultu see al NT RT	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490
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erospan see o BT TT RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n	agr air	icultu see al NT RT CC FC	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w Iso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning
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FC see os BT TT RT  CC FC see os See o	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation aerospace aerospace computing aerospace control aerospace test facilities	agr air	USE  icultu see all NT RT  CC FC  see all BT TT RT  TT RT	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w Iso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air chast circuit breakers air conditioning air conditioning air pollution airglow atmospheric composition compressors
FC  aerospae  see o  BT  TT  RT  CC  FC  aerospae  see o  BT  TT  RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation simulation aerospace aerospace control aerospace test facilities wind tunnets	agr air	USE  icultu see all NT RT  CC FC  see all BT TT RT  TT RT	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w Iso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment
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FC  see of BT  TT  RT  CC  FC  see of BT  TT  RT  CC  FC  see of BT  TT  RT  RT  RT  RT  RT  RT  RT  RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation aerospace aerospace computing aerospace test facilities wind tunnels B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities wind tunnels	agr air air	USE icultu see all NT RT  CC FC  see all ET TT RT  bases blast blast BT TT RT  RT  RT  RT  CC  I  RT  RT  CC  I  RC  RC	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w  lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment  airports  circuit breakers gas blast circuit breakers control equipment switchgear air
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FC  see os BT  TT  RT  CC  FC  see of BT  TT  RT  CC  FC  see of BT  TT  RT  TT  RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation simulation simulation aerospace control aerospace control aerospace test facilities wind tunnels B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities engineering facilities engineering facilities engineering facilities aerospace simulation	air dair dair dair dair dair dair dair d	USE icultu see all NT RT CC FC see all BT TT RT RT  blast BT TT RT  cC I BC I CC I CC I CC I CC I CC I CC	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w  lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment  airports  circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p
FC  see os BT  TT  RT  CC  FC  see of BT  TT  RT  CC  FC  see of BT  TT  RT  TT  RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion aerospace engines fuel heat engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation simulation aerospace computing aerospace test facilities wind tunnefs B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities wind tunnels test facilities wind tunnels test facilities aerospace compace garenes aerospace compace garenes aerospace compace garenes aerospace simulation laboratories	air dair dair dair dair dair dair dair d	USE icultu see all NT RT CC FC see all BT TT RT RT  blast BT TT RT  cC I BC I CC I CC I CC I CC I CC I CC	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p
See of BT TT RT CC FC FC Rerospace a NT TT RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace aerospace engines fuel heat engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation aerospace computing aerospace control aerospace test facilities wind tunnels wind tunnels wind tunnels veit et st facilities wind tunnels veit et st facilities et silso wind tunnels wind tunnels test facilities engineering facilities aerospace aerospace aerospace simulation laboratories	air dair dair dair dair dair dair dair d	USE icultu see all NT RT CC FC see all BT TT RT RT  blast BT TT RT  cC I BC I CC I CC I CC I CC I CC I CC	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w  lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment  airports  circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p
See of BT TT RT CC PC See of NT TT RT See of NT TT RT CC CC	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation simulation simulation aerospace control aerospace control aerospace test facilities wind tunnels B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities engineering facilities engineering facilities engineering facilities aerospace simulation laboratories testing B7620	air dair dair dair dair dair dair dair d	USE icultu see all NT RT CC FC see all BT TT RT RT  blast BT TT RT  cC I BC I CC I CC I CC I CC I CC I CC	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w Iso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p
See of BT TT RT CC FC FC Rerospace a NT TT RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace aerospace engines fuel heat engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation aerospace computing aerospace control aerospace test facilities wind tunnels wind tunnels wind tunnels veit et st facilities wind tunnels veit et st facilities et silso wind tunnels wind tunnels test facilities engineering facilities aerospace aerospace aerospace simulation laboratories	air t	USE  icultu  see all  NT  CC  FC  see all  TT  TT  TT  TT  RT  blast  blast  blast  cC  cC  clutche  blast  clutche  clutche	re Iso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w Iso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p
See of BT TT RT CC PC See of NT TT RT See of NT TT RT CC CC	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion propulsion aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation simulation simulation aerospace control aerospace control aerospace test facilities wind tunnels B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities engineering facilities engineering facilities engineering facilities aerospace simulation laboratories testing B7620	air t	USE  icultu  see all  NT  CC  FC  see all  TT  TT  TT  TT  RT  blast  blast  blast  cC  cC  clutche  blast  clutche  clutche	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports circuit breakers gas blast circuit breakers control equipment switchgear air B88370 b8370 + p
See of BT TT RT CC FC See of NT BT RT RT RT CC FC FC	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation aerospace computing aerospace control aerospace test facilities wind tunnefs B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities wind tunnels wind tunnels test facilities engineering facilities aerospace aerospace aerospace simulation laboratories testing B7620 b7620 + y	air t	USE  ticultu  see all  NT  RT  CC  see all  BT  TT  RT  bases  USE  blast  BT  TT  RT  CC  ticultu  see all  se	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w  lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports  circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p  s cutches
See of BT TT RT CC FC See a NT BT TT RT RT CC FC See a nerospace a nT RT	Langmuir probes radio direction-finding space vehicles B7630 b7630 - t  ce propulsion also aerospace engines propulsion propulsion aerospace aerospace engines fuel heat engines ion engines B7640 b7640 + n  ce simulation also aerospace test facilities simulation simulation aerospace computing aerospace control aerospace test facilities wind tunnefs B7620 C3360L C7460 b7620 + y c3360Lx c7460 + y  ce test facilities wind tunnels wind tunnels test facilities engineering facilities aerospace aerospace aerospace simulation laboratories testing B7620 b7620 + y	air dair c	USE  clicultus  see all  NT  RT  CC  FC  see all  BT  TT  RT  CC  blast  BT  TT  CC  cc  cc  cc  cc  cc  cc  cc  c	re lso farming farming dairying electric fences natural resources A9100 B8680 C3310C C7490 a9100 - w b8680 + h c3310Cp c7490 + w  lso terrestrial atmosphere terrestrial atmosphere terrestrial atmosphere air blast circuit breakers air conditioning air pollution airglow atmospheric composition compressors pneumatic control equipment airports  circuit breakers gas blast circuit breakers control equipment switchgear air B8370 b8370 + p  s cutches

uir	cond	itioning	air-train	ic control cont.
	see a	ilso ventilation		radar applications
	RT	air		radionavigation
		building		traffic recording
		compressors	CC	B7650C C3360L
		cooling	FC	b7650Ct c3360Lx
		domestic appliances		
		environmental engineering	aircraft	
		environmental testing	see a	also aerospace control; aerospace instrumentation; air-traffic control;
		heat pumps	helic	opters
		humidity	NT	helicopters
		humidity control	RT	aerodynamics
		power utilisation		aerospace
		temperature		
		total energy systems		aerospace control
		ventilation		aerospace instrumentation
	cc	B8550 C3340B		air traffic
		b8550 + y c3340Bk		air traffic control
	re	00330 Ty C3340DK		aircraft communication
				balloons
air		eability		ground support systems
	USE	permeability		hovercraft
		,		military equipment
.i-	pollu	ation		missiles
		ilso air pollution detection and control; smoke		rockets
				transportation
	UF	atmospheric pollution		B7600 C3360L C7460
		industrial atmospheres	cc	
	NT	air pollution detection and control	FC	b7600 - w c3360Lx c7460 + y
	BT	pollution		
	TT	pollution	aircraft	communication
	RT	air	BT	mobile communication systems
		atmospheric composition	TT	
		drops	RT	telecommunication systems
		dust	K I	air-traffic control
		fallout		aircraft
		pollution detection and control		ground support equipment
				ground support systems
		smoke		helicopters
		terrestrial atmosphere		navigation
		A9260 B7720 C3120P C3310G		radio
	FC	a9260 d b7720 + k c3120Pb c3310Gy		radiotelephony
			cc	B6250F
air	nollin	tion detection and control	FC	b6250Fn
	BT	air pollution		00250111
		pollution detection and control		•
	TT	pollution	aircraft	instrumentation
	• •	pollution detection and control	UF	avionic systems
	RT	atmospheric measuring apparatus	BT	aerospace instrumentation
	KI		TT	instrumentation
		atmospheric techniques	RT	radioaltimeters
		particle counting	cc	B7630 C3360L C7460
		particle size measurement	PC	67630 -t c3360Lx c7460 + y
		A9260T B7720 C3120P C3310G		01030 1 63300DR 67100 · )
	FC	a9260Ta b7720 + k c3120Pb c3310Gy		
			airfields	
	pump		USE	airports
	USE	compressors		
			airglow	
ir	termin	nals		also atmospheric spectra; aurora; nightglow; sky brightness; twilight
	USE	airports	UF	dayglow
			<del>-</del> -	polar cap flow
•			NT	nightglow
	traffi			
		traffic	BT	light radiation
		traffic	77	radiation
	RT	air-traffic control		waves
		aircraft	RT	air
		helicopters		atmospheric optics
		traffic recording		atmospheric spectra
	CC	B7650C C3360L		aurora
		b7650Ct c3360Lx		chemiluminescence
		U. T. C. G. BUDOVAIN		Rayleigh scattering
				sky brightness
dr		c computer control		terrestrial atmosphere
	UF	computerised air traffic control		twilight
		computerized air traffic control		
		aerospace computer control		upper atmosphere
		air-traffic control		A9410Q
		traffic computer control	FC	a9410Qe
		aerospace control		
			. !	
		computer applications	airmail	
		traffic control	USE	postal services
		C3360L C7460		
	FC	c3360Lx c7460 + y	airports	
			UF	aerodromes
ir.	-traffic	c control	Ur	
		lso air traffic computer control; aircraft		air bases
		air traffic computer control		air terminals
		aerospace control		airfields
		traffic control		heliports
		aerospace control		landing fields
		traffic control	RT	
			cc	B7650C C3360L C7460
		air traffic	FC	b7650Ct c3360Lx c7460 + y
		aircraft		- ·
		aircraft communication		
		airports helicopters	Al	aluminium

alarm s			netas anoys also caesium alloys; lithium alloys; potassium alloys; rubidium alloys
UF RT	warning systems		unso cuestam attoys, titnium attoys, potassium attoys, ruotatum attoys um allovs
KI	accidents acoustic generators		caesium alloys
	bells		lithium alloys
	detectors		potassium alloys
	indicators		rubidium alloys
	monitoring		sodium alloys
	protection	BT	alloys
	safety	TT	alloys
	safety systems	RT	alkali metal compounds
	signalling		•
	telecontrol	alkali -	netal compounds
CC	B0160 C3370L		also alkali metal alloys; alkali metal halides; caesium compounds
FC	b0160 + v c3370Le		cium compounds; lithium compounds; potassium compounds; rubidiur
			pounds; sodium compounds
albedo		NT	
RT	cosmic rays		caesium compounds
	Moon		francium compounds
	planetary atmospheres		lithium compounds
	planets		potassium compounds
	reflection		rubidium compounds
	scattering solar radiation		sodium compounds
cc	A9000 A9440 A2820	RT	alkali metal alloys
FC	a9000 - j a9440 - m a2820 - w		alkali metals
	27000 ) 27470 M 22020 W		
lalad		alkali -	estal halidas
alclad	aluminium allove		netal halides
USE	aluminium alloys	BT	also compounds of individual alkali metals, e.g. sodium compounds
		ы	alkali metal compounds halides
Alfven v		π	alkali metal compounds
USE	magnetohydrodynamic waves	• • •	halides
	solid-state plasma		nance.
algebra		alkali n	netals
see	also Boolean algebra, linear algebra, matrix algebra	500	also caesium; francium; lithium; potassium; rubidium; sodium
UF	classical algebra	NT	caesium
	majority algebra		francium
	Neumann algebra		lithium
	pair algebra		potassium
	pentary algebra		rubidium
NT	Boolean algebra		sodium
	group theory	' BT	metals
	linear algebra	· <u>TT</u>	metals
-	polynomials	RT	alkali metal compounds
BT	mathematics		
TT	natural sciences	alk aline	earth alloys
RT	current algebra		also beryllium alloys; magnesium alloys
CC FC	B0210 C1110	NT NT	
10	60210 + t c1110 + p	•••	magnesium alloys
		BT	alloys
ALGOL		ĪŦ	alloys
	also ALGOL 68		
NT BT	ALGOL 68		
Б.	algorithmic languages procedure-oriented languages		earth compounds
TT	formal languages		also barium compounds; beryllium compounds; calcium compounds
• • •	programming languages		nesium compounds; radium compounds; strontium compounds
CC	C6140D	NT	barium compounds
FC	c6140Dh		beryllium compounds
			calcium compounds
ALGOL			magnesium compounds
	ALGOL		radium compounds strontium compounds
BT TT	formal languages	RT	alkaline earth metals
••	programming languages	(	manner with library
cc	C6140D		
FC	c6140Dh		earth metals
	VO. 1021	see a	also barium; beryllium; calcium; magnesium; radium; strontium
Jan-148	m theem.	NT	barium
	m theory		beryllium
see o	also computational complexity; programming theory		calcium
RT	computational complexity programming		magnesium
KI	programming theory		radium
	subroutines		strontium
CC	C4240	BT	metals
PC	c4240 + r	TT	metals
10	C4240 · 1	RT	alkaline earth compounds
	mic languages	alkalinita	ı.
	also ALGOL	alkalinity USE	
NT	ALGOL .	USE	<b>y</b>
BT	formal languages		
TT .	formal languages	allotropis	sm
RT	programming languages		polymorphism
PC	C4210 c4210+t		• • •
~	V7410 FT .		
		alloy ste	_
	ns (computer listings)	BT	steel
USE	subroutines -	TT	alloys
liphatic	compounds	ماسالو	additions
	organic compounds		alloys
	•	N.I	

alloys alpha-particle angular distribution alloys such as Au-Cu, Au-Cu-Zn are indexed under components of the see also alpha-particle spectra named elements i.e. gold alloys; copper alloys; zinc alloys in these alpha particle-nucleus scattering alpha-particle spectra examples see also actinide alloys; alkali metal alloys; alkaline earth alloys; alloying alpha-particles A2360 A2560 additions; aluminium alloys; antimony alloys; arsenic alloys, bismuth alloys; boron alloys; cadmium alloys; dilute alloys; eutectic alloys; gallium a2360 + d a2560 - q alloys; germanium alloys; indium alloys; lead alloys; liquid alloys; mercury alloys; rare earth alloys; selenium alloys; silicon alloys; solid solutions; alpha-particle attenuation
USE alpha-particle absorption superalloys; tellurium alloys; thallium alloys; tin alloys; transition metal alloys; zinc alloys UF intermetallic compounds alpha-particle detection and measurement Laves phases actinide alloys see also alpho particle spectrometers; radioactivity measurement
BT radiation detection and measurement alkali metal alloys TT RT measurement alkaline earth alloys alpha-particle spectrometers aluminium alloys alpha-particles antimony alloys radioactivity measurement A2940 A2970 B7420 arsenic alloys bismuth alloys a2940 - y a2970 - w b7420 - m boron alloys cadmium alloys alpha-particle effects
BT radiation eff dilute alloys eutectic alloys radiation effects radiation effects gallium allovs germanium alloys alpha particle-nucleus reactions indium alloys alpha-particles A6180J lead alloys liquid alloys a6180Jp mercury alloys alpha-particle interactions
USE alpha particle-nucleus reactions selenium alloys silicon alloys superalloys alpha-particle model tellurium alloys USE nuclear cluster model thallium alloys tin allovs alpha particle-nucleus reactions
for inelastic alpha particle-nucleus scattering, see "alpha particle-nucleus transition metal alloys zinc alloys scattering' RT ageing alloying additions crystal atomic structure of alloys alpha-particle interactions ΒŤ nuclear reactions and scattering nuclear physics Ising lattices alpha-particle effects A2560 ŔŤ Ising model magnetic properties of dilute systems metallic glasses a2560 - a metallurgy metals alpha particle-nucleus scattering solid solutions HE alpha-particle scattering BT nuclear reactions and scattering nuclear physics almanacs alpha-particle angular distribution A2560C USE astronomical ephemerides RT CC FC a2560Ca alnico alloys USE iron alloys alpha-particle scattering USE alpha particle-nucleus scattering Al<sub>2</sub>O<sub>3</sub> USE alumina alpha-particle spectra see also alpha-particle angular distribution BT spectra Al<sub>2</sub>O<sub>3</sub>-α USE corundum ΤŤ spectra RT alpha-decay alpha-particle angular distribution alpha-particle spectrometers α-Al<sub>2</sub>O<sub>3</sub> USE corundum alpha-particles nuclear decay theory see also alpha decay theory; alpha particle spectra
BT tadioactivity alpha-decay radioactivity
A2360 A2930E B7420
a2360 + d a2930Ee b7420 - m radioactivity TT nuclear physics RT alpha-particle spectra alpha-particle spectrometers
see also alpha-particle spectra
BT particle spectrometers alpha-particles nuclear decay theory radioactive decay periods radioactive decay schemes TT instruments ŔŤ CC PC A2360 a2360 + d alpha-particle detection and measurement alpha-particle spectra alpha-particles A2930E B7440 C3380D C7320 a2930Ee b7440 + p c3380Dv c7320 + f alpha-decay theory see also alpha decay nuclear decay theory alpha-particles see also cosmic ray alpha-particles and helium nuclei
UF alpha-radiation TT nuclear physics A2360 a2360 + d alpha-rays cosmic ray alpha-particles and helium nuclei alpha-particle absorption
UF alpha-particle attenuation BT bosons composite particles nuclei with mass number 1 to,5 BT absorption absorption TT alpha-particles A6180J A2560 elementary particles nucleus CC FC RT alpha-decay a6180Jp a2560 -q alpha-particle absorption