

AEROSPACE (Aerospace and High Technology Database)

- Subject Coverage**
- Aerodynamics
 - Aerospace
 - Aircraft Design and Instrumentation
 - Chemistry and Chemical Engineering
 - Communications and Navigation
 - Electronics and Electrical Engineering
 - Environmental Pollution
 - Energy Production and Conversion
 - Fluid mechanics and Heat Transfer
 - Geosciences
 - Lasers and masers
 - Life Sciences
 - Materials
 - Mathematical and Computer Sciences
 - Mechanical Engineering
 - Meteorology, Climatology, and Oceanography
 - Propellants and Fuels
 - Quality Assurance and Reliability
 - Social Sciences
 - Solid State Physics
 - Space Sciences
 - Spacecraft Design and Systems Engineering
 - Structural Mechanics

File Type Bibliographic

Features

Thesaurus	Controlled Term (/CT)				
Alerts (SDIs)	Not available				
CAS Registry Numbers [®] Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN [®] AnaVist [™]	<input type="checkbox"/>
Keep & Share	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>	STN Easy [®]	<input type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>		

Record Content

- Bibliographic information, abstracts, and indexing

File Size More than 9.3 million records (12/2016)

Coverage 1962 – 2016

Updates Static file

Language English

Database Producer
 ProQuest LLC
 789 E. Eisenhower Parkway
 P.O. Box 1346
 Ann Arbor, MI 48106-1346
 USA
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www.proquest.com
 Copyright Holder

**Database
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Sources

- Books
 - Collected Works
 - Conferences
 - Dissertations
 - Journals
 - Patents
 - Preprints
 - Reports
 - Reprints
-

User Aids

- Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

Clusters

- AEROTECH
 - ALLBIB
 - AUTHORS
 - CORPSOURCE
 - CSAALL
 - ENGINEERING
 - GEOSCIENCE
 - HPATENTS
 - PATENTS
 - MOBILITY
- [STN Database Clusters](#) information (PDF).
-

Pricing

Enter HELP COST at an arrow prompt (=>).

SEARCH and DISPLAY Field Codes

Fields that allow left truncation in this file are indicated by an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from the title (TI), abstract (AB), and controlled term (CT) fields)	None (or /BI)	S COMPUTER-AID? S FCC (L) NASA S LINEAR (S) REGULATOR	AB, CT, TI
Abstract *	/AB	S (?SPACE?(L)CAPSULE)/AB	AB
Accession Number	/AN	S 2005:33003/AN	AN
Alloy Indexing Term	/ALI	S MARANYL/ALI	ALI
Author	/AU	S SCUSERIA G?/AU S PHILIPP, WARREN H/AU	AU
Classification Code (1) (code and text)	/CC	S L1 AND 32/CC S SPACE COMMUNICATIONS/CC	CC
Classification Code Alloy	/CCA	S MANGANESE STEELS/CCA	CCA
Controlled Term (4)	/CT	S AIR NAVIGATION/CT S MISSION PLANNING/CT	CT
Controlled Word	/CW	S CYCLE ENGINE#/CW S (BOUNDARY (S) TRANSITION)/CW	CT
Corporate Source (1)	/CS	S LEWIS CENTER/CS	CS,
Digital Object Identifier	/FTDOI	S L0.2514/1.46731/FTDOI	FTDOI,SO
Document Number	/DN	S 6608219/DN	DN
Document Type (code and text)	/DT (or /TC)	S B/DT S BOOK/TC	DT
Entry Date (2)	/ED	S ED>=20 JUL 2012	ED
E-mail Address	/EML	S BERKELEY@EDU/EML	EML, SO
Field Availability	/FA	S L9 AND AB/FA	FA
International Standard (Document) Number	/ISN	S 642976848/ISN S 0358-5085/ISN	ISN
Inventor	/IN	S DAVIS RALPH H/IN S JACKSON, L?/IN	IN
Journal Title	/JT	S JOURNAL OF FLUID MECHANICS/JT	JT, SO
Language (code and text)	/LA	S L2 AND EN/LA	LA
Meeting Title (contains meeting location and meeting date)	/MT	S MICROOPTICS CONFERENCE/MT	MT, SO
Note	/NTE	S JABLONNA/NTE	NTE
Number of Report	/NR	S 1251/NR	NR
Patent Assignee (1)	/PA	S WHITNEY/PA	PA, SO
Patent Country (5)	/PC	S US/PC	PI
Patent Number (3,5)	/PN	S US295677/PN	PI
Physical Properties	/PHP	S DEN/PHP (5A) PLATINUM	AB, TI
Publication Date (2)	/PD	S 20040201/PD	PD, SO
Publication Item Identifier	/PUI	S SNDE1743/PUI	PUI
Publication Year (2)	/PY	S 1995-1996/PY	PI, PY, SO
Source	/SO	S FOUNDRYMEN/SO AND 2010/SO	SO
Summary Language	/SL	S L1 AND ENGLISH/SL	SL
Title *	/TI	S ORBITAL DEBRIS/TI S (SPACE? (L) LAUNCH?)/TI	TI
Uniform Resource Locator	/URL	S AIP ORG/URL	URL, SO
Update Date (2)	/UP	S L3 AND UP>=1 AUG 2012	ED, UP
Word Count, Title	/WC.T	S WC.T<10 AND L1	WC.T

- (1) Search with implied (S) proximity is available in this field.
(2) Numeric search field that may be searched with numeric operators or ranges.
(3) Either STN or Derwent format may be used.
(4) There is a thesaurus associated with this field.
(5) Patent Numbers are standardized for CA, GB, and US patents.

AEROSPACE

Super Search Fields (1)

Search Field Name	Search Code	Search Examples	Display Codes
Patent Countries (code and text)	/PCS (/PC)	S US/PCS	PC
Patent Number Group (2)	/PATS (/PN)	S US2926123/PATS	PN

(1) Enter a super search code to perform a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

(2) Either STN or Derwent format may be used.

Property Fields₁₎

In AEROSPACE a numeric search for a specific set of physical properties (/PHP) is available within the abstract and title fields. The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in the abstract and title fields. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

Field Code	Property	Unit	Search Examples
/AOS	Amount of substance	Mol	S 10/AOS
/BIR	Bit Rate	Bit (Bit)	S 100000-160000/BIR
/BIT	Stored Information	Bit	S BIT > 3 MEGABIT (10A) STORAGE
/CAP	Capacitance	Farad	S 1-10 MF/CAP
/CDN	Current Density	Ampere/Square Meter	S CDN>10 A/M**2
/CMOL	Molarity (Concentration, amount of substance)	mol/l	S MOLYBD?/BI (S) 2/CMOL
/CON	Conductance	S (Siemens)	S 1E-2/CON
/DB	Decibel	Decibel	S DB>50
/DEG	Degree	Degree	S (POLARI? (S) ANGLE)/BI (S) 45/DEG
/DEN	Density (Mass Density)	Kg/m ³	S (METHOD? (S) COMPO?)/AB (S) 5E-3-10E-3/DEN
/DEQ	Dose Equivalent	Sievert	S DEQ>0.5 (S) RADIATION
/DOS	Dosage	Milligram/Kilogram	S DOS>0.8
/DV	Viscosity, dynamic	Pa * s (Pascal * second)	S DV>5000
/ECD	Electric Charge	Coulomb/Square Meter	S 1-20 /ECD.EX (XA) ELECTRICAL
/ECH	Electric Charge	Coulomb	S 15/ECH
/ECO	Electrical Conductivity	Siemens/Meter	S ECO>5000 (XA) AERODYNAMIC
/ELC	Electric Current	Ampere	S 1-10/ELC
/ELF	Electric Field	Volt/Meter	S 1-5 /ELF
/ENE	Energy	J (Joule)	S LUMINESCENCE AND 175/ENE
/ERE	Electrical Resistivity	Ohm * Meter	S ERE>10 (P) ISOLAT?
/FOR	Force	N (Newton)	S 50 N/FOR
/FRE	Frequency	Hz (Hertz)	S ANALY?/AB (10A) 0-3/FRE
/IU	International Unit	none	S IU>100 (P) INTERFERON
/KV	Viscosity, kinematic	m ² /s	S LUBRICANT/BI (S) 10E-5/KV

Property Fields¹⁾ (cont'd)

Field Code	Property	Unit	Search Examples
/LEN (or /SIZ) /LUME	Length Luminous Emittance/Illuminance	Meter Lux	S 1-4/LEN S 10-50/LUME
/LUMF	Luminous Flux (Luminous Power)	Lumen	S FLUID (P) LUMF>3
/LUMI	Luminous Intensity	Candela	S 5<LUMI<15
/M	Mass	Kg (Kilogram)	S ALLOY/BI (30A) 1E-10-1E-5/M
/MCH	Mass to Charge Ratio	none	S MCH=3
/MFD (or /MFS)	Magnetic Flux Density	Tesla	S MFD>0E-3(S)MAGNETIC RESONANCE
/MFR (or /MFL)	Mass Flow Rate	Kilogram/Second	S MFR>1.2
/MM	Molar Mass	g/mol	S 2000-3000 G/MOL/MM
/MOLS	Molality of Substance	mol/kg	S 01.-10 mol/kg/MOLS
/MVR	Melt Volume Rate	none	S 5-10/MVR
/NUC	Nutrition Content	none	S NUC<100 (XW) NUTRIENT
/PER	Percent (Proportionality)	Percent	S (TITAN? (3A) DIOXID?)/AB (S) 53/PER
/PERA	Permittivity, Absolute	Farad/Meter	S 1-10/PERA (S) BUFFER
/PHV	pH	pH	S 7.4-7.6/PHV
/POW	Power	W (Watt)	S (SOLAR? OR PHOTOVOLTAIC?)/BI (10A) 5-10/POW
/PRES (or /P)	Pressure	Pa (Pascal)	S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES
/RAD	Radioactivity	Bq (Becquerel)	S TRITIUM/BI AND RAD=>15
/RES	Electrical Impedance/resistance	Ohm	S VOLTAGE/AB (P) 1-10/RES
/RSP	Rotational Speed	Revolution/Minute	S 7000-8000/RSP AND ENGINE
/SAR	Area /Surface Area	m ²	S (COATING? OR FOIL?)/BI (S) 10- 100/SAR
/SOL	Solubility	Gram/100 gram	S SOL>20 (10W) WATER
/STSC	Surface Tension	J/m ²	S 60 J/M**2 /STSC
/TCO	Thermal Conductivity	K (Kelvin)	S 2-17/TCO (S) THERM?
/TEMP (or /T)	Temperature	K (Kelvin)	S (REACTION? (25A) PHOSPHAT?) (S) 10/TEMP
/TIM	Time	S (Second)	S CONDUCT?/AB (10W) 0-1/TIM
/VEL (or /V)	Velocity	m/s (Metre per Second)	S PUMP?/BI (S) 1E-3-5E-3/VEL
/VELA	Velocity, angular	rpm	S PHOTO?/AB (S) VELA>350
/VLR	Volumetric Flow Rate	Cubic Meter/Second	S 1-10/VLR (XA) COMBUSTION
/VOL	Volume	m ³	S ?EFFECT?/BI (15A) 1E-8-2E-8 /VOL
/VOLT	Voltage	V (Volt)	S CALIBRAT?/BI(10A) 5E- 3<VOLT<7E-3

(1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.00000092).

AEROSPACE**Thesaurus Fields**

All relationship codes may be used with both the SEARCH and EXPAND command in the Controlled Term (/CT) field.

Relationship Code	Content	Examples
ALL	All Associated Terms (BT, SELF, DA, DEF, NOTE, USE, UF, NT, RT)	E SPACE TRANSPORTATION SYSTEM FLIGHTS+ALL/CT
BT	Broader Terms (BT, SELF, DA, DEF, NOTE)	E STARSPOTS+BT/CT
DA	Entry Date (SELF, DA)	E FLIGHT CONTROL+DA/CT
DEF	Definition (SELF, DEF)	E HANG GLIDERS+DEF/CT
HIE	Hierarchy Terms (All Broader and Narrower Terms) (BT, SELF, DA, DEF, NOTE, NT)	E CATAPULTS+HIE/CT
KT	Keyword Terms (SELF, KT)	S HELIOS+KT/CT
NOTE	Notes (SELF, NOTE)	E BACILLUS+NOTE/CT
NT	Narrower Terms (SELF, DA, DEF, NOTE, NT)	E METEOROLOGICAL SATELLITES+NT/CT
PFT	All Preferred and Forbidden Terms (SELF, UF, USE)	E HYPERSPACES+PFT/CT
RT	Related Terms (SELF, RT)	S HYPERSPACES+RT/CT
STD	All Broader, Narrower and Related Terms (BT, SELF, DA, DEF, NOTE, NT, RT)	E REENTRY VEHICLES+STD/CT
UF	Used For Terms (Forbidden Terms) (SELF, UF)	E THRUST+UF/CT
USE	Use Terms (Preferred Terms) (SELF, USE)	E THRUST POWER+USE/CT

Thesaurus Field Descriptors

Code	Description
SELF (-->)	Controlled Term
BT	Broader Term (includes BT1, BT2, etc.)
DA	Entry Date
DEF	Definition
KT	Keyword Term
NOTE	Note
NT	Narrower Term (includes NT1, NT2, etc.)
RT	Related Term
UF	Used for Term
USE	Use Term

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g., D L1 1-5 TI AB. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields except PY. Highlighting must be ON during SEARCH in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB ALI AN AU CC CCA CS CT DN DT (TC) ED EML (1) FA FTDOI (1) IN ISN LA MT NR NTE PA PD (1) PI PUI PY (1) REC (1) SL SO TI UP URL WC.T	Abstract Alloy Indexing Term Accession Number Author Classification Code Classification Code Alloy Corporate Source Controlled Term Document Number Document Type Entry Date E-mail Address Field Availability Digital Object Identifier Inventor International Standard (Document) Number Language Meeting Title Number of Report Note Patent Assignee Publication Date Patent Information Publisher Item Identifier Publication Year Reference Count Summary Language Source Title Update Date Uniform Resource Locator Word Count, Title	D TI AB D ALI D AN D AU D L2 2 4 6 D CCA D CS D CT D DN D DT D ED D EML D FA D FTDOI D IN PA D ISN D LA D MT D NR D NTE D IN PA D PD D PI 1-3, 10 D PUI D PY D REC D SL D SO D TI D UP D URL D WC.T
ABS ALL DALL IALL BIB IBIB IND SCAN (2) TRIAL (TRI, SAM, SAMPLE, FREE)	AN, AB AN, DN, TI, AU, IN, CS, PA, PI, NR, SO, NTE, PUI, DT, FS, LA, SL, ED, AB, CC, CT, ALI, CCA ALL, with delimiter for post processing ALL, indented with text labels AN, DN, TI, AU, IN, CS, PA, PI, NR, SO, NTE, PUI, DT, FS, LA, SL, ED (BIB is the default) BIB, indented with text labels AN, CC, CT, ALI, CCA TI, CC, CT (random display without answer numbers) AN, TI, CC, CT, ALI, CCA	D ABS D 1-3 ALL D DALL D IALL D 8 BIB D IBIB D IND D SCAN D TRI
HIT KWIC OCC (1)	All field containing hit terms Hit terms plus 20 words on either side (Key-Word-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT D KWIC D OCC

(1) Custom display only.

(2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

AEROSPACE**SELECT, ANALYZE, and SORT Fields**

The SELECT command is used to create E-numbers or an L-number containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	Y
Alloy Indexing Term	ALI	Y	Y
Author	AU	Y	Y
Citation	CIT (RE)	Y (2,3)	N
Classification Code	CC	Y	Y
Classification Code Alloy	CCA	Y	Y
Controlled Term	CT	Y	Y
Corporate Source	CS	Y	Y
Digital Object Identifier	FTDOI	N	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
Entry Date	ED	Y	Y
E-mail Address	EML	Y	Y
Field Availability	FA	Y	N
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
International Standard (Document) Number	ISN	Y (4)	Y
Inventor	IN	Y	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Meeting Title	MT	Y	Y
Number of Report	NR	Y	Y
Note	NTE	Y	Y
Occurrence of Hit Terms	OCC	N	Y
Patent Assignee	PA	Y	Y
Patent Country	PC	Y	Y
Patent Number	PN (PI)	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Publisher	PB	Y	Y
Publisher Item Identifier	PUI	Y	Y
Reference Count	REC	Y	Y
Source	SO	Y (5)	Y
Summary Language	SL	Y	Y
Title	TI	Y (default)	Y
Uniform Resource Locator	URL	Y	Y
Update Date	UP	Y	Y
Word Count, Title	WC.T	Y	Y

(1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.

(2) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.

(3) SELECT HIT and ANALYZE HIT are not valid with this field.

(4) Selects or analyzes ISSN and ISBN with /ISN appended to the terms created by SELECT.

(5) Selects or analyzes the ISSN and ISBN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY ALL OF PATENT**

AN 2012:111419 AEROSPACE
 DN 16501891
 TI Rear combination lamp for automobiles
 IN Choo, Dong Hoon; Kim, Sung Wook
 PA Kia Motors Corporation (Seoul, KR)
 PI US 656634 20120327
 SO Application Information: D/373,360, 31 Mar. 2011
 DT Patent
 FS Mechanical & Transportation Engineering Abstracts (MT); METADEX (MD); ANTE: Abstracts in New Technologies and Engineering (AN); Aerospace & High Technology Database (AH)
 LA English
 ED Entered STN: 11 Jun 2012
 Last updated on STN: 11 Jun 2012
 AB CLAIM The ornamental design for a rear combination lamp for automobiles, as shown and described.
 CC 61 Design Principles (MT); 71 General and Nonclassified (MD); Yes (AN); 99 General (AH)
 CT Automobiles; Automotive engineering; Lamps

DISPLAY IBIB OF JOURNAL

ACCESSION NUMBER: 2011:260670 AEROSPACE
 DOCUMENT NUMBER: 15433864
 TITLE: Analysis of Orientation Precision for Rhombus Model Deployment of Passive Radar
 AUTHOR(S): Li, Gui-Yuan; Zhang, Hou; Li, Song-Jiang; Shu, Nan
 CORPORATE SOURCE: EMAIL: kg_liguiyuan@126.com
 SOURCE: Journal of Modern Defence Technology [J. Mod. Def. Technol.]. Vol. 39, no. 2, pp. 133-137. Mar 2011.
 ISSN: 1009-086X
 DOI: 10.3969/j.issn.1009-086x.2011.02.027
 Published by: China Aerospace Science & Industry Corporation, P.O. Box 142 Beijing 100854 China
 PUBL. ITEM IDENTIFIER: 2011-072-0178
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: Mechanical & Transportation Engineering Abstracts (MT); Aerospace & High Technology Database (AH)
 LANGUAGE: Chinese
 SUMMARY LANGUAGE: Chinese; English
 ENTRY DATE: Entered STN: 13 Jun 2012
 Last updated on STN: 13 Jun 2012

DISPLAY ALL OF BOOK

AN 2011:187241 AEROSPACE
 DN 14908954
 TI The design and implementation of a high sensitivity telescope for in situ measurements of energetic particles in the Earth's radiation belts.
 AU Parker, Charles Walter
 SO Dissertation Abstracts International. Vol. 71, no. 11, suppl. B, 435 p. 2011.
 ISBN: 9781124298054
 NTE Boston University. Copies of dissertations may be obtained by addressing your request to ProQuest, 789 E. Eisenhower Parkway, P.O. Box 1346, Ann Arbor, MI 48106-1346. Telephone 1-800-521-3042; email: disspub super(m)i.com.
 DT Book
 FS Electronics and Communications Abstracts (EA); Aerospace & High Technology Database (AH)
 LA English

AEROSPACE

ED Entered STN: 13 Jun 2012

Last updated on STN: 13 Jun 2012

AB This work describes the design and implementation of a high-sensitivity telescope (HST) for in situ detection and energy analysis of energetic charged particles in the Earth's radiation belts from a near-equatorial orbit that will range over geocentric distances from approximately 2-3.5 Earth radii as part of the US Air Force's Demonstrations and Science eXperiment (DSX) mission. The HST employs a two element silicon solid state detector telescope that has a geometrical factor of 0.1 cm² sr with a 14 degree field-of-view centered on the on-orbit local magnetic field vector to detect approximately 100 particles s⁻¹ cm⁻² sr⁻¹ in the geomagnetic bounce loss cone. The pointing direction of the HST is guaranteed by the active attitude control subsystem of the spacecraft. A novel implementation of a knife-edged baffled collimator design restricts the field-of-view and provides a sharp cutoff (approximately 10³) in the angular response to all particle species with energies from approximately 40-800 keV. The HST detectors are shielded with 5g cm⁻² of aluminum followed by 3.1 g cm⁻² of tungsten in all non-look directions to reduce the background fluxes incident on the detectors through the orbit (>10⁷ particles cm⁻² s⁻¹ for electrons and protons individually) to levels that will allow the detection of the target flux in the loss cone. The HST has been extensively characterized on the ground and is capable of analyzing the energies of particles over the range of 25-850 keV with an energy resolution of 3.7keV and a noise FWHM of 15keV. The calibration has been established using ²⁴¹Am and ¹³³Ba X-ray sources and verified using additional beta - and X-ray sources and the electron beams produced by the 2 MeV Van de Graaff accelerator at the NASA Goddard Spaceflight Center's Radiation Effects Facility. The instrument's calibration has been shown to vary by less than 2% over the operational temperature range of -20 to +35 degree C. Electromagnetic interference testing has proven that the HST is unaffected by strong VLF fields of peak amplitude 1.5 kV.

CC 22 Electronic Components and Materials (EA); 33 Electronics and Electrical Engineering (AH)

CT Calibration; Design engineering; Detectors; Earth; Fluxes; Orbits; Radiation belts; Telescopes

In North America

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