

AEROSPACE (Aerospace and High Technology Database) **STN**

- 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, Indexing

- Features**
- Thesaurus:** Controlled Term (/CT)
- [Alerts \(SDIs\)](#) Monthly
- [CAS Registry Numbers®](#) Page Images [STN AnaVist](#)
- [Keep & Share](#) [SLART](#) [STN Easy](#)
- Learning Database Structures [STN Viewer](#)

- Record Content**
- Research and development in aerospace and related sciences
 - Bibliographic information, abstracts, controlled terms

File Size • More than 6.7 million records (12/09)

Coverage 1962-present

Updates Monthly

Language English

Database Producer Cambridge Scientific Abstracts
 7200 Wisconsin Avenue
 Bethesda, MD 20814
 USA
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 (301) 961-6751
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Sources

Books
Conferences
Journals
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Collected Works
Dissertations
Patents
Reports

User Aids

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

Clusters

- [AEROTECH](#)
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See the [STN Price List](#) or enter HELP COST at an arrow prompt (=>).

SEARCH and DISPLAY Field Codes

Fields that allow left truncation (/BI, /AB, /TI, /NTE) 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
Application Country	/AC	S US/AC	AI
Application Date	/AD	S 20070815/AD	AI
Application Number	/AP	S US2005-29992/AP	AI
Author (includes inventor)	/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 S "METEOROLOGY AND CLIMATOLOGY"/CC	CC
Controlled Term (2) (includes major terms)	/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) (includes patent assignee)	/CS	S LEWIS CENTER/CS	AU, CS, PA
Document Number	/DN	S A6310010/DN	DN
Document Type (code and text)	/DT (or /TC)	S B/DT S BOOK/TC	DT
Entry Date (3)	/ED	S 20020700-20030800/ED	ED
Field Availability	/FA	S L9 AND AB/FA	Not displayed
File Segment	/FS	S AI/FS	FS
International Standard (Document) Number (contains ISBN and ISSN)	/ISN	S 642976848/ISN S 0358-5085/ISN	ISN, ISBN, ISSN, SO
Inventor	/IN	S DAVIS R C/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
National Patent Classification Code	/NCL	S 102049000/NCL	NCL
Note *	/NTE	S JABLONNA/NTE	NTE
Number of Contract	/NC	S 127-06-17-02/NC	NC, SO
Number of Report	/NR	S NASA-CR-95226/NR	NR, SO
Other Source	/OS	S "0000883(CI)"/OS	OS
Patent Assignee (1)	/PA	S WHITNEY/PA	PA, SO
Patent Country (code and text)	/PC	S UNITED STATES/PC S US/PC	PI
Patent Number (4)	/PN	S US2956772/PN	PI
Publication Date (3)	/PD	S 20040201/PD S FEB 1, 2004/PD S 01 FEB 2004/PD	PI, SO
Publication Year (3)	/PY	S 1995-1996/PY	PI, PY, SO
Publisher	/PB	S SPRINGER/PB	PB
Source (contains journal title, report number, contract number, collation information (volume, issue, pagination), publisher, publication date, document source information, ISSN, ISBN, and conference and meeting information)	/SO	S (AEROSPACE SCIENCES(L) MEETING(L)2004)/SO S (MATERIALS SCIENCE AND VOL 7)/SO	SO

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SEARCH and DISPLAY Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Summary Language Title *	/SL /TI	S L1 AND ENGLISH/SL S ORBITAL DEBRIS/TI S (SPACE? (L) LAUNCH?)/TI	SL TI
Sponsoring Organization (code and text)	/CSS	S CERAMIC SOCIETY?/CSS	CSS
Update Date (3)	/UP	S L3 AND UP>=19980600	ED, UP

- (1) Search with implied (S) proximity is available in this field.
(2) There is a thesaurus associated with this field.
(3) Numeric search field that may be searched with numeric operators or ranges.
(4) Either STN or Derwent format may be used.

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
Limiting Search Codes (3) Major descriptor	/MAJOR (4)	S L15/MAJ	

- (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.
(3) Search results may be restricted to the following search area in AEROSPACE. Only an L-number for an answer set created in AEROSPACE may be limited.
(4) The code may be abbreviated to the first three letters.

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 STARSPTS+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

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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 AI (AP) AN (1) AU CC (1) CS CSS CT (1) DN DT (TC) FS IN ISN (2) JT (2) LA NC (2) NCL (1) NR (2) NTE OS PA PB PI (PATS, PN) (3) PY (2) SL SO TI (1)	Abstract Application Information Accession Number Author (includes inventor and corporate source) Classification Code Corporate Source (included patent assignee) Sponsoring Organization Controlled Term Document Number Document Type File Segment Inventor International Standard (Document) Number (includes ISSN and ISBN) Journal Title Language Number of Contract National Patent Classification Code Number of Report Note Other Source Patent Assignee Publisher Patent Information Publication Year Summary Language Source (includes NC and NR) Title	D TI AB D AI D AN D AU 1-5 D L2 2 4 6 D CS D CSS D CT D DN D DT D FS D IN PA D ISN D JT D LA D NC D NCL D NR D NTE D OS D IN PA D PB D PI 1-3, 10 D PY D SL D SO D TI
ALL (3) ABS BIB (3) CBIB DALL (3) IALL (3) IBIB (3) IND (1) SCAN (4) TRIAL (TRI, FREE, SAM) (1)	AN, DN, TI, AU, IN, CS, PA, CSS, PI, AI, SO, NTE, PB, DT, FS, LA, OS, SL, ED, AB, NCL, CC, CT AB AN, DN, TI, AU, IN, CS, PA, CSS, PI, AI, SO, NTE, PB, DT, FS, LA, SL, OS, ED (BIB is the default) Compressed bibliographic information ALL, delimited for post-processing ALL, indented with text labels BIB, indented with text labels NCL, CC, CT TI, NCL, CC, CT (random display, no answer numbers) TI, NCL, CC, CT	D ALL D ABS D L6 BIB;D D CBIB D 1- DALL D IALL D IBIB D IND D SCAN D TRIAL
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) No online display charge for this option.

(2) Custom display only.

(3) By default, patent, application, and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter SET PATENT STN.

(4) No online display charge for this option. SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

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 (2)	N
Accession Number	AN	Y	N
Application Counter	AC	Y	Y
Application Date	AD	Y	Y
Application Information	AI	Y	Y
Application Number	AP	Y	Y
Author (Inventor)	AU	Y	Y
Citation	CIT	Y (3,4)	N
Classification Code	CC	Y	Y
Corporate Source (Patent Assignee)	CS	Y	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
File Segment	FS	Y	Y
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
International Standard (Document) Number	ISN	Y	Y
Inventor	IN	Y (4)	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
National Patent Classification Code	NCL	Y	Y
Note	NTE	Y	Y
Number of Contract	NC	Y	Y
Number of Report	NR	Y	Y
Occurrence of Hit Terms	OCC	N	Y
Other Source	OS	Y	Y
Patent Assignee	PA	Y	Y
Patent Countries Group	PCS	Y (5)	N
Patent Country	PC	Y	Y
Patent Information	PI	Y (4,6)	Y
Patent Number	PN	Y	Y
Patent Numbers Group	PATS	Y (7)	N
Publication Date	PD	Y	Y
Publication Year	PY	Y (4)	Y
Publisher	PB	Y	Y
Source	SO	Y (8)	N
Sponsoring Organization	CSS	Y	Y
Summary Language	SL	Y	Y
Title	TI	Y (default)	Y
Treatment Code	TC	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 RN.

(2) Appends /BI to the terms created by SELECT.

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

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

(5) Selects or analyzes the patent country with /PCS appended to the terms created by SELECT.

(6) Selects or analyzes the patent number with /PI appended to the terms created by SELECT.

(7) Selects or analyzes the patent number with /PATS appended to the terms created by SELECT.

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

AEROSPACE**Sample Records****DISPLAY IALL**

ACCESSION NUMBER: 2000:8232 AEROSPACE
 DOCUMENT NUMBER: A0025651
 TITLE: Radargrammetric parameter evaluation of an airborne SAR image
 AUTHOR(S): Wu, Joz,; Lin, De-Chen, (National Central Univ., Chung-Li, Taiwan)
 CORPORATE SOURCE: National Central Univ., Chung-Li, Taiwan (Wu; Lin).
 SOURCE: PE&RS - Photogrammetric Engineering & Remote Sensing, Vol. 66, No. 1., pp. 41-47. (Jan 2000).
 Available from: AIAA Dispatch; Voice: 800 662 1545, Fax: 816 926 8794, E-Mail: dispatch@aiaa.org..
 ISSN: 0099-1112
 DOCUMENT TYPE: Journal; Article (Journal Article)
 FILE SEGMENT: Aerospace & High Technology
 LANGUAGE: English
 ENTRY DATE: Entered STN: 12 Jun 2000
 Last Updated on STN: 15 Oct 2002

ABSTRACT:

Digital synthetic aperture radar (SAR) images are composed of lines oriented along-track and pixels in a cross-track direction. Because of the motion of a SAR platform, the flight position and velocity parameters have time-dependent characteristics. Our objective consists in devising a model for the position/velocity parameters, then incorporating the model into radargrammetric data processing. The interpolative parameter model is based on a linear prediction method with filtering. For a monoscopic airborne SAR image having a 12.0-km swath width and a 9.0-km along-track distance at an altitude of about 7.1-km, the positional root-mean-square errors are calculated using the ground coordinates available at 15 independent checkpoints. Taking into account any model inadequacy, the errors inherent in the SAR image forming, and the image point measurement errors, the position accuracy values amount to +/- 1.5, +/- 1.5 pixels horizontally and +/- 1.2 pixels vertically. (Author)

CLASSIFICATION: 32 COMMUNICATIONS (AH)
 CONTROLLED TERM: *RADAR IMAGERY; TRANSFORMATIONS (MATHEMATICS); PIXELS; SYNTHETIC APERTURE RADAR; ERROR ANALYSIS; *AIRBORNE RADAR

DISPLAY IND

IC B01D017-06
 NCL 210/748.000; 55/277.000; 210/767.000; 210/806.000; 406/197.000
 CC 25 Inorganic and Physical Chemistry
 CT *ACOUSTICS; *CLASSIFIERS; *FRACTIONATION; *SEPARATION; ACOUSTIC FREQUENCIES; PATENTS; RESONANCE; RESONANT FREQUENCIES; SOUND TRANSDUCERS; SOUND WAVES

EXPAND in /CT Thesaurus

=> E BODIES OF REVOLUTION+ALL/CT

E1 406 BT1 SYMMETRICAL BODIES/CT
E2 4154 --> BODIES OF REVOLUTION/CT
DA 1988
DEF Symmetrical bodies having the form described by rotating a plane curve about an axis in its plane.
E3 2365 NT1 CONICAL BODIES/CT
E4 500 NT2 SLENDER CONES/CT
E5 8909 NT1 CYLINDRICAL BODIES/CT
E6 1659 NT2 ROTATING CYLINDERS/CT
E7 495 NT1 PARABOLIC BODIES/CT
E8 26 NT1 POWER LAW BODIES/CT
E9 7447 NT1 SPHERES/CT
E10 242 NT2 CELESTIAL SPHERE/CT
E11 70 NT2 CONCENTRIC SPHERES/CT
E12 186 NT2 FALLING SPHERES/CT
E13 296 NT2 POINCARÉ SPHERES/CT
E14 626 NT2 ROTATING SPHERES/CT
E15 737 NT1 TORUSES/CT
E16 7211 RT AERODYNAMIC CONFIGURATIONS/CT
E17 23224 RT AERODYNAMICS/CT
E18 1519 RT AXES OF ROTATION/CT
E19 2827 RT AXISYMMETRIC BODIES/CT
E20 39 RT BODIES/CT
E21 1117 RT CONES/CT
E22 2142 RT DISKS (SHAPES)/CT
E23 2074 RT ELLIPSOIDS/CT
E24 646 RT FINNED BODIES/CT
E25 7477 RT GEOMETRY/CT
E26 328 RT HEMISPHERES/CT
E27 247 RT HEMISPHERICAL SHELLS/CT
E28 551 RT OGIVES/CT
E29 1398 RT RINGS/CT
E30 3111 RT SPHERICAL SHELLS/CT
E31 236 RT STREAMLINED BODIES/CT
***** END *****

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P.O. Box 3012
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Fax: 614-447-3751
E-mail: help@cas.org
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In Europe

FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.de

In Japan

JAICI (Japan Association for
International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
E-mail: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp