

## TRIBO (Tribology Index)

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- Subject Coverage**
- Biomechanics, geomechanics
  - Friction and wear phenomena
  - Influential factors: materials characteristics, surface properties, operating conditions, external effects, geometry, design
  - Instruments and measurements
  - Lubrication, lubricants
  - Machines: vehicles, engines, machine tools, comminution, mining, construction, materials handling, energy technology
  - Machine components: bearings, transmissions, brakes, seals, precision mechanics, electrical contacts, wheel/rail, tire/road
  - Maintenance, efficiency
  - Manufacturing: tools, processes
  - Materials: metals, minerals and ceramics, polymers, composites, textiles, biological materials, coatings
  - Types of stress: sliding, rolling, impact, fretting, abrasion, erosion, cavitation, ablation
  - Surface and contacts
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**File Type** Bibliographic

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**Features**

Thesaurus	None		
Alerts (SDIs)	Not available		
CAS Registry Number® Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>

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- Record Content**
- Bibliographic information, indexing, and part of the citations contain an abstract
  - The database is in English, the text of the classification is additionally available in German. For non-English literature, usually the original title, mostly in French or German, is given additionally.
  - Preliminary and parallel publications as well as translations are cited together with the basic document in one document unit, wherever possible.
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**File Size** • 112,216 records

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**Coverage** 1972-2004

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**Updates** Closed file

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**Language** English, German

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**Sources**

- Journals
  - Books
  - Standards
  - Reports
  - Conference contributions
  - Dissertations
  - Company publications and other non-conventional literature
- 

**User Aids**

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

**Cluster**

- ALLBIB
- AUTHORS
- CORPSOURCE
- ENGINEERING
- MATERIALS
- PETROLEUM

STN Database Cluster information:  
<http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features>

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*).

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from title, abstract, classification text, meeting title and supplementary term)	None or /BI	S RUBBER FRICTION OR FRICTION OF RUBBER	TI, AB, ABDE, CC, CCDE, SO, ST
Accession Number	/AN	S 195227/AN	AN
Author	/AU	S FAWCETT, J N/AU	AU
Classification Code in English (code and text) (main code)	/CC (or /CCEN)	S (LUBRIC?(S)BEAR?)/CC S 9.1/CC S *9.231/CC	CC
Classification Code in German (code and text)	/CCDE	S GLEITLAGER/CCDE	CCDE
Corporate Source	/CS	S (NASA(S)HUNTSVILLE)/CS S SKF AB, GOETEBORG?/CS	CS
Document Type (code and text)	/DT (or /TC)	S STANDARD/DT S R/DT	DT
Entry Date (2)	/ED (or /UP)	S ED=2002	not displayed
Field Availability	/FA	S L10 AND AB/FA	not displayed
International Standard (Document) Number (contains ISBN, ISSN and CODEN)	/ISN	S KUZSAN/ISN S 0-89883-875-4/ISN S 0898838754/ISN	SO
Journal Title	/JT	S KUGELLAGER-Z./JT	SO
Language (code and text)	/LA	S FRENCH/LA AND MULTILINGUAL/LA S DE/LA	LA
Meeting Date (2)	/MD	S 19860312/MD	SO
Meeting Year (2)	/MY	S 1990/MY	SO
Number of Report (number of standard, order number)	/NR	S NASA/NR S NASA-CR-175018/NR S NASACR175018/NR	NR, SO
Publication Year (2)	/PY	S 1989-1991/PY AND L4	SO
Source (contains CODEN, journal title and other higher level titles, ISBN, ISSN, publishing information, number of report, order number, abstract references)	/SO	S (SPRINGER VERLAG(L)HEIDELBERG)/SO S AFBMA221976/SO S (REV? METALLURGIE PARIS)/SO S (ASLE(L)HOUSTON(L)1983)/SO	SO
Supplementary Term Title (1)	/ST /TI	S GAS LUBRICATION/ST S METAL CUTTING/TI	ST TI

(1) Titles of higher level (e.g. title of book in a record of a book article) are searchable in /SO.

(2) Numeric search field that may be searched using numeric operators or ranges.

## DISPLAY and PRINT Formats

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

Please note that due to the structure of this database several NR- and SO-fields may appear in one document unit.

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

Format	Content	Examples
AB (ABEN) ABDE AN AU AV CC (CCEN) CCDE CS DT JT (1) LA NR PY (1) SO ST TI	Abstract in English Abstract in German Accession Number Author Availability Classification Code in English Classification Code in German Corporate Source Document Type Journal Title Language Number of Report Publication Year Source (format includes NR and AV) Supplementary Term Title	D AB D ABDE D AN D AU D AV D CC D CCDE D CS D DT D JT D LA D NR D PY D SO D ST D TI
ALL ALLDE BIB  IND TRIAL (TRI, SAM, SAMPLE)	BIB, AB, CC, ST BIB, ABDE, CCDE, ST AN, TI, AU, CS, NR, SO, AV, DT, LA (BIB is default) AN, CC, CCDE, ST TI, CC, ST	D 1-3 ALL D ALLDE D BIB  D IND D TRIAL
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

(1) Custom display only.

## SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers 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).

**SELECT, ANALYZE, and SORT Fields (cont'd)**

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB (ABEN)	Y (2)	N
Abstract in German	ABDE	Y (2)	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Classification Code	CC (CCEN)	Y	Y
Classification Code in German	CCDE	Y	Y
CODEN	CODEN	N	Y
Corporate Source	CS	Y	Y
Document Type	DT(TC)	Y	Y
International Standard (Document) Number	ISN	Y (3)	N
International Standard Book Number	ISBN	N	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
Meeting Date	MD	Y	N
Number of Report	NR	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Publication Year	PY	Y	Y
Source	SO	Y (4)	N
Supplementary Term	ST (STEN)	Y	N
Title	TI	Y (default)	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) Appends /BI to the terms created by SELECT.

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

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

**Sample Records****DISPLAY BIB OF JOURNAL**

AN 268101 TRIBO  
 TI Fabrication of a novel scanning probe device for quantitative nanotribology.  
 AU Zijlstra, T.; Heimberg, J.A.; Drift, E. van der; Glastra van Loon, D.; Dienwiebel, M.; Groot, L.E.M. de; Frenken, J.W.M.  
 SO Sensors Actuators A: Phys. (2000), Vol.A84 (No. 1/2) p. 18-24  
 With 16 refs.  
 CODEN: SAAPEB  
 DT Journal  
 LA English

**DISPLAY ALL OF REPORT**

AN 248801 TRIBO  
 TI The thin layer activation method and its applications in industry.  
 CS International Atomic Energy Agency (IAEA), Wien, Austria  
 NR IAEA-TECDOC-924  
 SO 01.1997, Rep., 143 pp.  
 DT Report  
 LA English  
 AB The thin layer activation (TLA) method is one of the most effective and precise methods for the measurement and monitoring of corrosion, erosion and wear in industry and is used for on-line remote measurement of wear and corrosion rate of central parts in machines or processing vessels under real operating conditions. This document is a comprehensive manual on TLA method in its applications for monitoring wear and corrosion in

**TRIBO**

industry. It describes the theory and presents case studies on TLA method applications in industry. In addition, in annexes are given tables of nuclear data relating to TLA (decay characteristics, depth distribution of reaction products, activation data for charged-particle nuclear reactions), references from INIS database on TLA and a detailed production of the application of TLA for wear measurement of superhard turning tools.

CC \*2. experimental methods and equipment, measurement, testing  
9.231 tool, process: manufacturing: cutting: shear cutting, machining

**DISPLAY BIB OF COMPANY PUBLICATION**

AN 246804 TRIBO  
 TI ((The CARB bearing:)) A tolerant roller bearing ((allowing tilting and axial load)) - reducing size, weight and production costs of bearing arrangements.  
 ((Das CARB-Lager.)) Reduzieren Sie Groesse, Gewicht und Herstellkosten: Das tolerante Lager ist da.  
 CS SKF GmbH, Schweinfurt, Germany  
 NR SKF-4486-G  
 SO 06.1996, Brochure, 28 pp.  
 DT Company Publication  
 LA German

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 Phone: 800-753-4227 (North America)  
 614-447-3700 (worldwide)  
 Fax: 614-447-3751  
 Email: help@cas.org  
 Internet: www.cas.org

**In Europe**

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 STN Europe  
 P. O. Box 2465  
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 Phone: +49-7247-808-555  
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 International Chemical Information)  
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 6-25-4 Honkomagome, Bunkyo-ku  
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 Fax: +81-3-5978-3600  
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 customer@jaici.or.jp (Customer Service)  
 Internet: www.jaici.or.jp