

COMPENDEX (Ei Compendex)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|-----------------------|--|---------------------------|-------------------------------------|--|--|-------------------------------|--------|--|--|--|--|----------------------------------|--------------------------|-------------|--------------------------|---------------|--------------------------|----------------------------------|-------------------------------------|-----------------------|-------------------------------------|---------------------------|-------------------------------------|-------------------|--------------------------|------------|--------------------------|--|--|
| Subject Coverage | <ul style="list-style-type: none"> • Civil and railroad engineering • Environmental and agricultural engineering • Geological and marine engineering • Mining and metallurgy • Chemical, petroleum, and fuel engineering • Bioengineering • Electrical engineering and electronics • Mechanical, automotive, and industrial engineering • Control devices and principles, instruments and measurement • Nuclear technology • Aerospace engineering • Heat and thermodynamics • Computers and data processing, communication engineering • Sounds and acoustical technology • Optics and optical devices | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| File Type | Bibliographic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Features | <table border="0" style="width: 100%;"> <tr> <td>Thesaurus</td> <td colspan="5">Controlled Term (/CT), Controlled Term in German (/CTDE)</td> </tr> <tr> <td>Alerts (SDIs)</td> <td colspan="5">Weekly</td> </tr> <tr> <td>CAS Registry Number® Identifiers</td> <td><input type="checkbox"/></td> <td>Page Images</td> <td><input type="checkbox"/></td> <td>STN® AnaVist™</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Keep & Share</td> <td><input checked="" type="checkbox"/></td> <td>SLART</td> <td><input checked="" type="checkbox"/></td> <td>STN Easy®</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Learning Database</td> <td><input type="checkbox"/></td> <td>Structures</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> </table> | Thesaurus | Controlled Term (/CT), Controlled Term in German (/CTDE) | | | | | Alerts (SDIs) | Weekly | | | | | CAS Registry Number® 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 checked="" type="checkbox"/> | Learning Database | <input type="checkbox"/> | Structures | <input type="checkbox"/> | | |
| Thesaurus | Controlled Term (/CT), Controlled Term in German (/CTDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alerts (SDIs) | Weekly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAS Registry Number® 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 checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Learning Database | <input type="checkbox"/> | Structures | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Record Content | <ul style="list-style-type: none"> • Bibliographic information, abstracts, and indexing • Cited references from journals, books, conference contributions, reports, dissertations, and other non-conventional literature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| File Size | <ul style="list-style-type: none"> • More than 19.2 million records (11/2018) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coverage | 1970-present | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Updates | Weekly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Language | English | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Database Producer | <p>Elsevier (Engineering Information) 360 Park Avenue South New York, NY 10010 USA Phone: 212-633-3895 Fax: 212-633-3680 Email: eicustomersupport@elsevier.com Copyright Holder</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Database Supplier FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
Email: helpdesk@fiz-karlsruhe.de

- Sources**
- Journals (over 5600)
 - Books
 - Reports
 - Conference contributions
 - Other non-conventional literature
-

- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
 - Ei Thesaurus – Classification Code:
http://www.stn-international.de/compendex_cc.html
 - STNGUIDE
-

- Clusters**
- AEROTECH
 - ALLBIB
 - AUTHORS
 - CHEMENG
 - CHEMISTRY
 - COMPUTER
 - CONSTRUCTION
 - CORPSOURCE
 - ELECTRICAL
 - ENGINEERING
 - ENVIRONMENT
 - FUELS
 - GEOSCIENCE
 - GOVREGS
 - MATERIALS
 - MEETINGS
 - METALS
 - PETRLOEUM
 - POLYMERS
- [STN Database Clusters](#) information (PDF)
-

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

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 (TI), abstract (AB), classification code (text) (CC), controlled term (CT), and supplementary term (ST) fields) | None or /BI | S TURBOSHAFT ENGINE# S DIGITAL(2W)CONTROL S JET TURBINE# S FEEDBACK/BI,CT S ?LASER? | AB, CC, CT, ST, TI |
| Abstract* | /AB | S ?SYMMETRI?/AB | AB |
| Accession Number | /AN | S 2008-4911759913/AN | AN |
| Author (editor) | /AU | S CHENEY PAUL H/AU S CHENEY, PAUL H/AU S HERMAN, ?/AU | AU |
| Classification Code) (code and text) (1) | /CC | S (BRIDGES TUNNELS)/CC S 538.1/CC | CC |
| Controlled Term | /CT | S MAN MACHINE SYSTEMS/CT S *MOTOR TRANSPORTATION/CT S (FAILURE ANALYSIS(S)AUTOMAT?)/CT S MAGNETIC RESONANCE+NT/CT | CT |
| Controlled Term in German (2) | /CTDE | E AUSSENVERKLEIDUNG+ALL/CTDE S FACINGS/CTDE | CT |
| Controlled Word | /CW | S MOTOR TRUCK TERMINALS/CW | CT |
| Country of Publication (ISO code and text) | /CY | S US/CY | CY |
| Corporate Source (author affiliations, and e-mail addresses) (1) | /CS | S (IBM(S)LOS(W)GATOS)/CS | CS, EML |
| Digital Object Identifier | /FTDOI | S 10-1002/ASI.21378/FTDOI | SO |
| Document Type (STN code and text) | /DT (or /TC) | S REPORT/DT S B/DT | DT |
| E-mail Address (1) | /EML | S AMERICAN EDU/EML | CS, EML |
| Entry Date (4) | /ED | S ED=20090109 | ED |
| Field Availability | /FA | S L10 AND AB/FA | FA |
| International Standard (Document) Number (CODEN, ISBN, and ISSN) | /ISN | S MACYAC/ISN S 1212-4834/ISN S 9197040843/ISN | ISN, SO |
| Journal Title (contains full and abbreviated journal titles) | /JT | S ACTA ASTRONAUTICA/JT S J ACOUST SOC AM /JT | JT, JTA, JTF, SO |
| Language (ISO code and text) | /LA | S FRENCH/LA | LA |
| Meeting Date (4) | /MD | S 900425-900427/MD | MD, SO |
| Meeting Location | /ML | S BRUSSELS/ML | ML, SO |
| Meeting Number | /MN | S 13230/MN | MN |
| Meeting Organizer (1) | /MO | S TECHNOLOGY GROUP/MO | MO, SO |
| Meeting Title | /MT | S (ELECTRONIC MANUFACTURING AND SYMPOSIUM)/MT | MT, SO |
| Meeting Year (4) | /MY | S 1990/MY | MD, SO |
| Number of Report | /NR | S AIAA 2005-818/NR | NR |

COMPENDEX

General Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
|--|--|---|--|
| Publication Date (4) Publication Year (4) Publisher (1) Publisher Item Identifier Reference Count | /PD /PY /PB /PUI /REC (or /RE.CNT) | S JAN-FEB 2007/PD S L2 AND 1981-1983/PY S SPRINGER HEIDELBERG/PB S 1011092002203496/PUI S 8-10/REC | PD, SO PY, SO PB, SO PUI REC, SO |
| Source (contains CODEN, DOI, journal title and other higher level titles, ISBN, ISSN, publisher, meeting information, meeting organizers and sponsors, number of report) | /SO | S TRANSP SCI/SO S NATMA4/SO S 0499-9320/SO S 0-8031-0443-X/SO S (REMOTE SENSING (S) VEGETATION)/SO S 08030606016/SO S PSISDG/SO | SO |
| Summary Language (ISO code and text) | /SL | S GERMAN/SL S DE/SL | SL |
| Supplementary Term Title* | /ST /TI | S GADOLINIUM/ST S LONGWALL MINING/TI S (STOCKPILES(S)COKE OVEN)/TI S ?ALLOCATION?/TI | ST TI |
| Update Date (4) Word Count, Title | /UP /WC.T | S UP=20090127 S 10-20/WC.T | ED WC.T |

(1) Search with implied (S) proximity is available in this field.

(2) EXPAND with German terms may be used in the /CTDE thesaurus field to identify the corresponding English thesaurus terms. Only English terms are indexed and thus searchable in the database. This search can be carried out in the /CTDE field.

(3) Elements cited in Hill System order with an asterisk (*) between element terms.

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

Property Fields₁₎

In COMPENDEX 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>5 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 |

Property Fields¹⁾ (cont'd)

| Field Code | Property | Unit | Search Examples |
|-------------------------|---|-------------------------------------|---|
| /ECH /ECO | Electric Charge Electrical Conductivity | Coulomb Siemens/Meter | S 15/ECH S ECO>5000 (XA) GEOTHERMAL EFFECTS |
| /ELC /ELF | Electric Current Electric Field | Ampere Volt/Meter | S 1-10/ELC S 1-10/ELF |
| /ENE | Energy | J (Joule) | S NUTRIENTS AND 100/ENE |
| /ERE | Electrical Resistivity | Ohm * Meter | S ERE>10 |
| /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 |
| /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 |
| /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 |
| /PER | Percent (Proportionality) | Percent | S (TITAN? (3A) DIOXID?)/AB (S) 53/PER |
| /PHV /POW | pH Power | pH W (Watt) | S 7.4-7.6/PHV 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 /RES | Radioactivity Electrical Impedance/resistance | Bq (Becquerel) Ohm | S RAD>100 S VOLTAGE/AB (P) 1-10/RES |
| /RSP /SAR | Rotational Speed Area /Surface Area | Revolution/Minute m ² | S 5000-8000/RSP AND PARAFFIN 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 (STABILITY (25A) VITAMIN?) (S) 10/TEMP |
| /TIM | Time | S (Second) | S CONDUCT?/AB (10W) 0-1/TIM |
| /VEL (or /V) | Velocity | m/s (Metre per Second) | S EVOL?/BI AND 2E-4-5E-4/VEL |
| /VELA | Velocity, angular | rpm | S VISCO?/AB (S) VELA<350 |
| /VLR | Volumetric Flow Rate | Cubic Meter/Second | S 1-10/VLR (XA) VARIABILITY |
| /VOL | Volume | m ³ | S ?EFFECT?/BI (15A) 1E-8-2E-8 /VOL |
| /VOLT | Voltage | V (Volt) | S APPLICATION/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).

THESAURUS FIELDS

The Engineering Index Thesaurus is available online in fields /CT (Controlled Term) and /CTDE (Controlled Term in German) (Deutsch-Englische Ausgabe).

All Relationship Codes can be used with both the SEARCH and EXPAND command.

| Code | Content | Examples |
|----------|--|---|
| ALL | All Associated Terms (BT, SELF, DA, NOTE, USE, USE+, NEW, UF, UF+, OLD, NT, RT, CC) | E SATELLITES+ALL/CT E BESCHICHTUNGEN+ALL/CTDE S COATINGS+ALL/CTDE S FLARE STACKS+AUTO/CT |
| AUTO (1) | Automatic Relationship (SELF, USE, USE+, NEW, UF, UF+, OLD) | |
| BT | Broader Terms (BT, SELF) | E JUTE FASERN+BT/CTDE S JUTE FIBERS+BT/CTDE |
| HIE | Hierarchy (all Broader and Narrower Terms) (BT, SELF, NT) | E MAGNETIC DEVICES+HIE/CT |
| NOTE | Term with date and scope note (SELF, DA, NOTE) | E RAILS+NOTE/CT |
| NT | Narrower Terms (SELF, NT) | S RAILROAD TRACKS+NT/CT |
| RT | Related Terms (SELF, RT) | E SATELLITES+RT/CT |
| UF | Preferred and Forbidden Terms (SELF, UF, UF+, OLD) | E MAGNETIC DISK STORAGE+UF/CT |
| USE | Forbidden and Preferred Terms (SELF, USE, USE+, NEW) | S PARKWAYS+USE/CT |

(1) Automatic Relationship is SET OFF. In case of SET REL ON, the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

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.

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

| Format | Content | Examples |
|--|--|--|
| AB AN AU CC CS CT CY DT (TC) ED (UP) EML (1) FTDOI ISN (1) JT (1) JTA (1) JTF (1) LA MD ML MN MO MT NR PD (1) PB (1) PUI PY (1) REC (RE.CNT) (1) SL SO ST TI UP WC.T (1) | Abstract Accession Number Author Classification Code Corporate Source (author affiliations, and e-mail addresses) Controlled Term Country of Publication Document Type Entry Date E-mail Address Digital Object Identifier International Standard (Document) Number Journal Title Journal Title, Abbreviated Journal Title, Full Language Meeting Date Meeting Location Meeting Number Meeting Organizer Meeting Title Number of Report Publication Date Publisher Publisher Item Identifier Publication Year Reference Count Summary Language Source Supplementary Term Title Update Date Word Count, Title | D TI AB D 1-5 AN D AU TI D CC CT D CS D CT CC D CY D DT D ED D EML D FTDOI D ISN D JT D JTA D JTF D LA D MD D ML D MN D MO D MT D NR D PD D PB D PUI D PY D REC D SL D SO D CT ST 5-15 D TI 1-10 D UP D WC.T |
| ABS ALL DALL IALL ALLO BIB IBIB IND SCAN (2) TRIAL (TRI, SAMPLE, SAM, FREE) | AN, AB BIB, AB, CC, CT, ST ALL, delimited for post processing ALL, indented with text labels AN, TI, AU, MT, MO, ML, MD, SO, PY, MN, DT, LA, AB, CC, CT, ST AN, TI, AU, CS, NR, SO, PUI, CY, DT, LA, SL, ED (BIB is default) BIB, indented with text labels AN, CC, CT, ST TI, CT (random display without answer numbers) TI, CC, CT, ST | D ABS D 1-3 ALL D DALL D IALL D BIB D IBIB D IND D SCAN D TRI |
| 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.

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

COMPENDEX**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).

| Field Name | Field Code | ANALYZE/ SELECT (1) | SORT |
|--|--------------|------------------------|------|
| Abstract | AB | Y | N |
| Accession Number | AN | Y | N |
| Author | AU | Y | Y |
| Citation | CIT (RE) | Y (2) | N |
| Classification Code | CC | Y | Y |
| CODEN | CODEN | N | Y |
| Controlled Term | CT | Y | N |
| Corporate Source (author affiliations, and e-mail addresses) | CS | Y (3) | Y |
| Country of Publication | CY | Y | Y |
| Document Type | DT (TC) | Y | Y |
| E-mail Address | EML | Y | Y |
| Entry Date | ED (UP) | Y | Y |
| International Standard Book Number | ISBN | N | Y |
| International Standard (Document) Number | ISN | Y (4) | Y |
| International Standard Serial Number | ISSN | N | Y |
| Journal Title | JT | Y | Y |
| Journal Title, Abbreviated | JTA | Y | Y |
| Journal Title, Full | JTF | Y | Y |
| Language | LA | Y | Y |
| Meeting Date | MD | Y | Y |
| Meeting Location | ML | Y | Y |
| Meeting Number | MN | Y | Y |
| Meeting Organizer | MO | Y | Y |
| Meeting Title | MT | Y | Y |
| Number of Report | NR | Y | Y |
| Occurrence Count of Hit Terms | OCC | N | Y |
| Publication Date | PD | Y (3) | Y |
| Publisher | PB | Y | Y |
| Publisher Item Identifier | PUI | Y | Y |
| Publication Year | PY | Y (3) | Y |
| Reference Count | REC (RE.CNT) | Y | Y |
| Source | SO | Y (5) | N |
| Summary Language | SL | Y | Y |
| Supplementary Term | ST | Y | N |
| Title | TI | Y (default) | 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) SELECT CIT or ANALYZE CIT allows you to extract the reference from the source documents in this database and have them automatically converted to a citation format for searching in SCISEARCH. SEL CIT selects first author, publication year, volume, first page, and a truncation symbol 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 CODEN, ISBN, and ISSN with /ISN appended to the terms created by SELECT.
- (5) Selects or analyzes CODEN, ISBN, and ISSN with /SO appended to the terms created by SELECT.

Sample Records**DISPLAY BIB OF CONFERENCE**

AN 2008-4911759913
TI A new approach to control a population of mobile robots using genetic programming
AU Luiz Anderson(1); Perez Fernandes(1); Bittencourt Guilherme(1); Roisenberg Mauro(2)
Correspondence(s): Luiz A.(1)
CS (1)Department of Automation and Systems, Federal University of Santa Catarina, UFSC, Florianopolis, SC, Brazil
(2)Department of Computer Science, Federal University of Santa Catarina, UFSC, Florianopolis, SC, Brazil
EMAIL: anderson@das.ufsc.br; gb@das.ufsc.br; mauro@inf.ufsc.br
SO Proceedings of the 23rd Annual ACM Symposium on Applied Computing, SAC'08 (2008), pp. 1602-1606, 16 refs.
ISBN: 9781595937537
DOI: 10.1145/1363686.1364063
Published by: Association for Computing Machinery, 1515 Broadway, 17th Floor, NY 10036-5701, New York, United States of America
Conference: 23rd Annual ACM Symposium on Applied Computing, SAC'08, Fortaleza, Ceara, Brazil, 16 Mar 2008 - 20 Mar 2008
Organizer(s): ACM Special Interest Group on Applied Computing (ACM SIGAPP)
CY United States of America
DT Conference; (Conference Paper)
LA English
SL English
ED Entered STN: 9 Jan 2009
Last updated on STN: 15 Jan 2009

DISPLAY ALL OF JOURNAL

AN 2013-0315913005
TI Regeneration of the East African timber tree *Ocotea usambarensis* in relation to historical logging
AU Kleinschroth Fritz(1); Kowarik Ingo(1); Cierjacks Arne(1); Schoning Caspar(2); Kung'u James B.(3)
Correspondence(s): Kleinschroth F.(1)
CS (1)Department of Ecology, Ecosystem Science/Plant Ecology, Technische Universitat Berlin, Rothenburgstr. 12, 12165 Berlin, Germany
(2)Functional Biodiversity, Dahlem Centre of Plant Sciences, Institut fur Biologie, Freie Universitat Berlin, Konigin-Luise-Str. 1-3, 14195 Berlin, Germany
(3)Department of Environmental Sciences, Kenyatta University, P.O. Box 43844, 00100 Nairobi, Kenya
EMAIL: fritz.kln@gmail.com
SO Forest Ecology and Management (1 Mar 2013), Volume 291, pp. 396-403, 55 refs.
CODEN: FECMDW ISSN: 0378-1127
DOI: 10.1016/j.foreco.2012.11.021
Published by: Elsevier, P.O. Box 211, 1000 AE, Amsterdam, Netherlands
PUI S0378112712006974
CY Netherlands
DT Journal; Article
LA English
SL English
ED Entered STN: 21 Jan 2013
Last updated on STN: 21 Jan 2013
AB East African montane forests have been subjected to heavy logging,

COMPENDEX

particularly of *Ocotea usambarensis* Engl., formerly one of the dominant tree species of moist mid-altitude forests. At Mt. Kenya, logging was suspended in 2000 after a conspicuous decline in population size, but the success of this conservation measure has not yet been evaluated. Given that a management scheme of *O. usambarensis* forests based on vegetative regeneration has been suggested, we hypothesized that natural regeneration mainly by root suckers would be sufficient for a recovery of this species. Demography and regeneration (both sexual and vegetative) of *O. usambarensis* were studied in 45 study plots between 1700 and 2500m asl along a gradient of historical logging intensity, while taking altitude and light incidence into account as predictor variables. The diameter distribution showed a high percentage of old individuals and rather low recruitment in *O. usambarensis*. In heavily logged areas (removed basal area >25m²ha⁻¹), smaller trees (<50cm DBH, >130cm high) were completely absent. The number of seedlings was low and independent of logging intensity. It increased with higher light incidence. The number of root suckers was 5.6-fold the number of seedlings, underscoring the importance of vegetative reproduction. However, number of root suckers and logging intensity were negatively correlated. We conclude that regeneration of *O. usambarensis* at Mt. Kenya is generally low and negatively influenced by historical logging. Therefore, natural regeneration is inadequate for the recovery of this valuable timber species, and additional conservation measures such as enrichment planting should be considered. .COPYRGT. 2012 Elsevier B.V.

CC 415.3 Wood Structural Materials; 442.2 Land Reclamation; 454
Environmental Engineering; 811.2 Wood and Wood Products; 922.2
Mathematical Statistics

CT *Reforestation; Conservation; Logging (forestry); Population statistics;
Timber

ST Mount Kenya; Mountain forests; Regeneration; Root sucker; Seedling

DISPLAY ALLO

AN 2008-4911759407

TI SER performance of OFDM polarization diversity system with EGC

AU Ilic Maja(1,2); Pejanovic-Djurisic Milica(1,2)

Correspondence(s): Ilic M.(1)

MT 4th IEEE International Conference on Wireless and Mobile Computing,
Networking and Communication, WiMob 2008

ML Avignon (FR)

MD 12 Oct 2008 - 14 Oct 2008

SO Proceedings - 4th IEEE International Conference on Wireless and Mobile
Computing, Networking and Communication, WiMob 2008. Proceedings - 4th
IEEE International Conference on Wireless and Mobile Computing,
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DT Conference; (Conference Paper)

LA English

AB This paper presents an analytical model for Symbol Error Rate (SER)
calculation of a polarization receive diversity system with equal gain
combining (EGC) of the received signals. Ricean fading statistic
characterizing wireless communication channel is assumed. Pade rational
approximation to the moment generating function (MGF) of the output SNR
(Signal-to-Noise Ratio) is used in the case of EGC. Furthermore, linear

transformation of correlated signals into uncorrelated ones is proposed, so that standard analytical model for SER calculation of the uncorrelated received signals can be applied. The influence of two main parameters characterizing polarization diversity system: correlation coefficient and cross-polar discrimination on SER is also analyzed. The validity of the presented model for SER calculation is proved using the simulation of the system considered. .COPYRGT. 2008 IEEE.

CC 723.4 Artificial Intelligence; 723.5 Computer Applications; 731.5 Robotics; 741.1 Light and Optics; 723.2 Data Processing; 751.2 Acoustic Properties of Materials; 921 Applied Mathematics; 921.6 Numerical Methods; 922.2 Mathematical Statistics; 804.1 Organic Compounds; 723 Computer Software, Data Handling and Applications; 701.1 Electricity, Basic Concepts and Phenomena; 711.1 Electromagnetic Waves in Different Media; 716 Electronic Equipment, Radar, Radio and Television; 716.1 Information and Communication Theory; 461.4 Human Engineering; 716.3 Radio Systems and Equipment; 718 Telephone and Other Line Communications; 722.3 Data Communication, Equipment and Techniques; 722.4 Digital Computers and Systems; 717 Electro-Optical Communication

CT *Wireless networks; Acoustic intensity; Antennas; Codes (symbols); Correlation methods; Function evaluation; Ketones; Learning systems; Mobile computing; Modal analysis; Polarization; Signal encoding; Signal to noise ratio

ST Correlation coefficient; Cross-polar discrimination; EGC; Polarization diversity; Symbol error rate

=> E RAILROAD TRACKS+ALL/CT

| | | | |
|-----|------|-----|---|
| E1 | 1261 | BT2 | Facilities/CT |
| E2 | 6379 | BT2 | Railroads/CT |
| E3 | 3341 | BT1 | Railroad plant and structures/CT |
| E4 | 3439 | --> | Railroad tracks/CT |
| | | DA | January 1993 |
| E5 | 0 | UF | Tracks (railroad)/CT |
| E6 | 301 | OLD | Railroad plant and structures:Track/CT |
| E7 | 38 | OLD | Railroad plant and structures:Track inspection/CT |
| E8 | 102 | NT1 | Railroad ties/CT |
| E9 | 66 | NT1 | Railroad track switches/CT |
| E10 | 348 | RT | Ballast (railroad track)/CT |
| E11 | 270 | RT | Rail laying/CT |
| E12 | 3691 | RT | Rails/CT |
| E13 | 55 | RT | Track test cars/CT |
| E14 | 0 | CC | 681.1/CT |

***** END *****

=> E AUSSENVERKLEIDUNG+ALL/CTDE

| | | | |
|-----|-------|-----|------------------------------------|
| E1 | 4939 | BT3 | EN Structures (built objects)/CTDE |
| E2 | 0 | DE | Bauwerke (erbaute Objekte)/CTDE |
| E3 | 30967 | BT2 | EN Buildings/CTDE |
| E4 | 0 | DE | Gebaeude/CTDE |
| E5 | 422 | BT1 | EN Building components/CTDE |
| E6 | 0 | DE | Gebaedeteile/CTDE |
| E7 | 212 | EN | Facings/CTDE |
| E8 | 0 | --> | DE Aussenverkleidung/CTDE |
| | | DA | EN January 1993 |
| | | DE | Januar 1993 |
| E9 | 63 | OLD | EN Buildings:Facings/CTDE |
| E10 | 603 | RT | EN Facades/CTDE |
| E11 | 0 | DE | Fassaden/CTDE |
| E12 | 142 | RT | EN Revetments/CTDE |

COMPENDEX

| | | | |
|-----------------|-----|----|-----------------------|
| E13 | 0 | | DE Verkleidungen/CTDE |
| E14 | 401 | RT | EN Veneers/CTDE |
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