

## COMPENDEX (Ei Compendex)

<b>Subject Coverage</b>	<ul style="list-style-type: none"> <li>• Civil and railroad engineering</li> <li>• Environmental and agricultural engineering</li> <li>• Geological and marine engineering</li> <li>• Mining and metallurgy</li> <li>• Chemical, petroleum, and fuel engineering</li> <li>• Bioengineering</li> <li>• Electrical engineering and electronics</li> <li>• Mechanical, automotive, and industrial engineering</li> <li>• Control devices and principles, instruments and measurement</li> <li>• Nuclear technology</li> <li>• Aerospace engineering</li> <li>• Heat and thermodynamics</li> <li>• Computers and data processing, communication engineering</li> <li>• Sounds and acoustical technology</li> <li>• Optics and optical devices</li> </ul>																																
<b>File Type</b>	Bibliographic																																
<b>Features</b>	<table border="0" style="width: 100%;"> <tr> <td>Thesaurus</td> <td colspan="3">Controlled Term (/CT), Controlled Term in German (/CTDE)</td> </tr> <tr> <td><a href="#">Alerts (SDIs)</a></td> <td colspan="3">Weekly</td> </tr> <tr> <td><a href="#">CAS Registry Numbers®</a></td> <td><input type="checkbox"/></td> <td>Page Images</td> <td><input type="checkbox"/></td> </tr> <tr> <td><a href="#">Keep &amp; Share</a></td> <td><input checked="" type="checkbox"/></td> <td><a href="#">SLART</a></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> </tr> <tr> <td></td> <td></td> <td><a href="#">STN AnaVist</a></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><a href="#">STN Easy</a></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td><a href="#">STN Viewer</a></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Thesaurus	Controlled Term (/CT), Controlled Term in German (/CTDE)			<a href="#">Alerts (SDIs)</a>	Weekly			<a href="#">CAS Registry Numbers®</a>	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>			<a href="#">STN AnaVist</a>	<input type="checkbox"/>			<a href="#">STN Easy</a>	<input checked="" type="checkbox"/>			<a href="#">STN Viewer</a>	<input checked="" type="checkbox"/>
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		<a href="#">STN Viewer</a>	<input checked="" type="checkbox"/>																														
<b>Record Content</b>	<ul style="list-style-type: none"> <li>• Bibliographic information, abstracts, and indexing</li> <li>• Cited references from journals, books, conference contributions, reports, and other non-conventional literature</li> </ul>																																
<b>File Size</b>	<ul style="list-style-type: none"> <li>• More than 10.3 million records (02/11)</li> </ul>																																
<b>Coverage</b>	1970-present																																
<b>Updates</b>	Weekly with about 12,000 citations																																
<b>Language</b>	English																																
<b>Database Producer</b>	<p>Elsevier (Engineering Information)          360 Park Avenue South          New York, NY 10010 USA          Phone: 212-633-3895          Fax: 212-633-3680          E-mail: <a href="mailto:eicustomersupport@elsevier.com">eicustomersupport@elsevier.com</a>          Copyright Holder</p>																																

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E-mail: [helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)

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

- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
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- Clusters**
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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 (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
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
Element Term (contains chemical elements and formulas, compounds (CP), materials (SY: >= 2 metals), dopings, ions neg. (IN), ions pos. (IP), isotopes (IS), nuclear reactions (target T, reaction R, final nucleus F)) (3)	/ET	S AL*CU*MG/ET S MG CP/ET S TI SY 3/ET S SI:H/ET S NA IS/ET S 97MO T/ET	ET
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.

**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
AUTO (1)	Automatic Relationship (SELF, USE, USE+, NEW, UF, UF+, OLD)	S FLARE STACKS+AUTO/CT
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. 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) ET 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 Element Term 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 ET 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, ET 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, ET AN, TI, AU, CS, NR, SO, PUI, CY, DT, LA, SL, ED (BIB is default) BIB, indented with text labels AN, CC, CT, ST, ET TI, CT (random display without answer numbers) TI, CC, CT, ST, ET	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
Element Term	ET	Y	N
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; Perez Fernandes; Bittencourt Guilherme; Roisenberg Mauro  
CS Luiz Anderson; Perez Fernandes; Bittencourt Guilherme (Department of Automation and Systems, Federal University of Santa Catarina, UFSC, Florianopolis, SC (BR)); Roisenberg Mauro (Department of Computer Science, Federal University of Santa Catarina, UFSC, Florianopolis, SC (BR))  
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. Proceedings of the ACM Symposium on Applied Computing (2008), pp. 1602-1606, 16 refs.  
ISBN: 9781595937537  
DOI: 10.1145/1363686.1364063  
Published by: Association for Computing Machinery, 1515 Broadway, 17th Floor, New York, NY 10036-5701 (US)  
Conference: 23rd Annual ACM Symposium on Applied Computing, SAC'08 Fortaleza, Ceara (BR), 16 Mar 2008-20 Mar 2008  
Organizer(s): ACM Special Interest Group on Applied Computing (ACM SIGAPP)  
CY United States  
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 2009-0311862639  
TI High voltage safety management system of electric vehicle  
AU Qiang Jiaxi; Ao Guoqiang; Yang Lin  
CS Qiang Jiaxi; Ao Guoqiang; Yang Lin (Institute of Automobile Electronic Technology, Shanghai Jiaotong University, Shanghai 200240 (CN))  
EMAIL: qiangjiaxi@sjtu.edu.cn; aoguoqiang@sjtu.edu.cn; yanglin@sjtu.edu.cn  
SO Chinese Journal of Mechanical Engineering (English Edition) (Dec 2008) Volume 21, Number 6, pp. 63-68, 7 refs.  
CODEN: CJMEER ISSN: 1000-9345  
DOI: 10.3901/CJME.2008.06.063  
Published by: Chinese Mechanical Engineering Society, No.46,Road Sanlihe, Beijing, 100823 (CN)  
CY China  
DT Journal; Article  
LA English  
SL English  
ED Entered STN: 20 Jan 2009  
Last updated on STN: 20 Jan 2009  
AB In order to improve the drivability and energy efficiency of electric vehicle (EV), more and more batteries are connected in series with high voltage which makes it necessary to monitor the electric parameters of high voltage system (HVS) to ensure the high voltage safety. A high voltage safety management system is developed to solve this critical issue. Several key electric parameters including pre-charge, contact resistance, insulation resistance and remaining capacity are monitored and analyzed based on the presented equivalent models. An electronic unit called high voltage safety controller is developed. By the help of hardware-in-loop system, the equivalent models integrated in the high

**COMPENDEX**

voltage safety controller are validated and the on-line electric parameters monitor strategy is discussed. The real vehicle experiment results indicate that the high voltage safety management system designed is suitable for EV application.

- CC 912.2 Management; 715 Electronic Equipment, General Purpose and Industrial; 705.2.2 DC Generators; 704 Electric Components and Equipment; 702.1.2 Secondary Batteries; 701.1 Electricity, Basic Concepts and Phenomena; 682.1.2 Locomotives; 662.2 Smaller Vehicles; 662.1 Automobiles; 525.2 Energy Conservation; 432 Highway Transportation
- CT \*Electricity; Automobiles; Contact resistance; DC generators; Electric automobiles; Electric insulation; Electric vehicles; Energy efficiency; Management
- ST Critical issues; Electric parameters; Electronic units; Equivalent models; Hardware in loops; High voltage safety; High voltage systems; High voltages; Insulation resistance; Pre-charge; Real vehicles; Remaining capacity

**DISPLAY ALLO**

- AN 2008-4911759407
- TI SER performance of OFDM polarization diversity system with EGC
- AU Ilic Maja; Pejanovic-Djurisic Milica
- 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, Networking and Communication, WiMob 2008, pp. 661-665, var.pagings p., arn: 4654316, 14 refs.  
ISBN: 9780769533933  
DOI: 10.1109/WiMob.2008.87  
Published by: Inst. of Elec. and Elec. English Computer Society, 445 Hoes Lane - P.O.Box 1331, Piscataway, NJ 08855-1331 (US)
- PY 2008
- MN 74304
- 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  
E13 0 DE Verkleidungen/CTDE  
E14 401 RT EN Veneers/CTDE  
E15 0 DE Furniere/CTDE  
E16 0 CC EN 402/CTDE  
E17 0 CC EN 408.2/CTDE

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customer@jaici.or.jp (Customer Service)  
Internet: www.jaici.or.jp