

**CELEBRATING
40 YEARS!**

August 25, 1997

Volume 28

Number 34

CURRENT CONTENTS®

Engineering, Computing & Technology

INCLUDING

**Acoustics • Aerospace • Artificial Intelligence • Automation
Chemical Engineering • Civil Engineering • Computer-aided Engineering
Computer Hardware & Software • Computing Systems & Networks
Electrical & Electronics Engineering • Engineering Management • Energy
Environmental Engineering • Fuels • Geotechnology • Information Technology
Instrumentation • Lasers • Manufacturing • Materials • Mechanical Engineering
Mechanics • Metallurgy • Microelectronics • Mining • Neurocomputing
Operations Research • Optics • Optoelectronics • Polymers • Process Industries
Robotics • Semiconductors • Superconductors**

CCET0212502 34 97 001 *
LIBRIS *
C/O MCGREGOR FR
LIBRIS ALGER 21693951
POB 992
OREGON
IL 61061

VOLUME August 25, 1997

28

NUMBER

34

Not all journals covered by *Current Contents* are published weekly. Therefore, in any given issue your favorite journal may not be listed. However, it will be included as often as it is issued. For the complete List of Serials covered and the latest Publisher Guide see issue #30, July 28, 1997. For the latest Triannual Cumulative Index see issue #21, May 26, 1997.

FEATURED IN THIS ISSUE OF
CURRENT CONTENTS®/ENGINEERING, COMPUTING & TECHNOLOGY

FEATURES

- 2 Journal Coverage Changes
- 5 Current Book Contents®

DISCIPLINE GUIDE

- 8 Aerospace Engineering
- 9 AI, Robotics & Automatic Control
- 14 Chemical Engineering
- 24 Civil Engineering
- 32 Computer Engineering, Technology & Applications
- 35 Electrical and Electronics Engineering
- 55 Engineering Management/General
- 65 Engineering Mathematics
- 69 Environmental Engineering/Energy

- 74 Geological/Petroleum/Mining Engineering
- 75 Information Technology & Communications Systems
- 80 Instrumentation/Measurement
- 86 Materials Science and Engineering
- 103 Mechanical Engineering
- 113 Metallurgy
- 117 Nuclear Engineering
- 120 Optics & Acoustics

INDEXES

- 129 Title Word Index
- 159 Author Index & Address Directory
- 179 Publishers Address Directory

Current Contents processes all journal issues within two weeks of their receipt and makes every reasonable effort to insure their prompt delivery to ISI. Please note that the cover dates of some journals do not correspond to the actual publication dates.

If a journal is covered in more than one *CC*®, a letter code appears in parentheses next to the volume and issue number to identify which editions: (L)=Life Sciences; (P)=Physical, Chemical & Earth Sciences; (S)=Social & Behavioral Sciences; (A)=Agriculture, Biology & Environmental Sciences; (C)=Clinical Medicine; (E)=Engineering, Computing & Technology; (H)=Arts & Humanities.

JOURNALS APPEARING IN THIS ISSUE:

- | | |
|--|---|
| 32 ACM TRANS COMPUT SYST,15 (2) | 65 DISCRETE APPL MATH,77 (1) |
| 120 ACOUST PHYS-ENGL TR,43 (4) | 105 DYN STABILITY SYSTEMS,12 (2) |
| 14 ADHES AGE,40 (8) | 35 ELEC MACH POWER SYST,25 (7) |
| 86 ADVAN MATER,9 (9) | 36 ELEC POWER SYST RES,42 (2) |
| 9 ADVANCED ROBOTICS,11 (1) | 36 ELECTROMAGNETICS,17 (4) |
| 103 AEROSOL SCI TECH,27 (2) | 36 ELECTRON LETT,33 (1) |
| 75 ANN TELECOMMUN,52 (5-6) | 39 ELECTRON LETT,33 (14) |
| 15 APPL CATAL A-GEN,155 (1) | 41 ELECTRON LETT,33 (15) |
| 69 APPL CATAL B-ENVIRON,12 (4) | 74 EMJ-ENG MINING J,198 (7) |
| 65 APPL MATH MODEL,21 (5) | 69 ENERG FUEL,11 (4) |
| 65 APPL MATH MODEL,21 (6) | 26 ENG STRUCT,19 (11) |
| 9 ARTIF INTELL,94 (1-2) | 75 ENVIRON ENG GEOSCI,3 (1) |
| 117 AT ENERGY-ENGL TR,81 (6) | 56 ERGONOMICS,40 (8) |
| 9 AUTOMAT REMOTE CONTR-ENGL TR,58 (1)P1 | 105 EXP THERM FLUID SCI,15 (2) |
| 69 BRENNST-WARME-KRAFT,49 (1-2) | 11 EXPERT SYSTEMS,14 (2) |
| 76 BT TECHNOL J,15 (3) | 22 FILTR SEP,34 (6) |
| 86 CAN CERAM QUART J CAN CERAM S,66 (1) | 22 FLUID PHASE EQUILIBRIA,135 (1) |
| 74 CAN GEOTECH J,34 (3) | 66 FUZZY SET SYSTEM,90 (1) |
| 24 CAN J CIVIL ENG,24 (2) | 87 HOLZ ROH WERKST,55 (4) |
| 113 CAN METALL QUART,36 (3) | 80 I&CS-INSTR CONTROL SYST,70 (7) |
| 15 CATALYSIS LETT,46 (1-2) | 44 IEE PROC-ELECTR POWER APPL,144 (4) |
| 16 CHEM ENG,104 (7) | 121 IEE PROC-OPTOELECTRONICS,144 (1) |
| 17 CHEM ENG PROCESS,36 (4) | 44 IEE PROC-SCI MEAS TECHNOL,144 (4) |
| 18 CHEM ENG SCI,52 (15) | 44 IEE REVIEW,43 (4) |
| 18 CHEM IND-LONDON,1997 (14) | 32 IEEE ANN HIST COMPUT,19 (3) |
| 19 CHEM WEEK,159 (28) | 45 IEEE ELECTR INSUL MAGAZINE,13 (4) |
| 20 CHEM WEEK,159 (29) | 46 IEEE ELECTRON DEV LETT,18 (8) |
| 35 CIRC SYST SIGNAL PROCESS,16 (4) | 46 IEEE MICROW GUIDED WAVE LETT,7 (8) |
| 104 COMBUST EXPL SHOCK WAVES-ENGL,32 (5) | 47 IEEE NETWORK,11 (4) |
| 87 COMPOS PART B-ENG,28 (4) | 47 IEEE TRANS BIOMED ENG,44 (8) |
| 76 COMPUT COMMUN,20 (3) | 48 IEEE TRANS COMPUT AID DES INT,16 (4) |
| 105 COMPUT FLUIDS,26 (5) | 56 IEEE TRANS IND APPL,33 (4) |
| 25 COMPUT GEOTECH,20 (3-4) | 11 IEEE TRANS PATT ANAL MACH INT,19 (7) |
| 55 COMPUT OPER RES,24 (8) | 49 IEEE TRANS POWER SYST,12 (3) |
| 55 COMPUT OPER RES,24 (9) | 58 IIE SOLUTIONS,29 (8) |
| 25 COMPUT STRUCT,65 (1) | 58 IIE TRANSACTIONS,29 (6) |
| 10 CONTROL ENG,1997 (JUL)SI | 59 IIE TRANSACTIONS,29 (7) |
| 22 DESALINATION,109 (3) | 77 INF PROCESS LETT,62 (6) |

CONTINUED

Journal Coverage Changes

Current Contents®/Engineering, Computing & Technology,
Issue #34, August 25, 1997

(ISI® abbreviated titles appear in parentheses following the full title for all newly added or changed journal titles)
The following journals have been added:

Environmental & Engineering Geoscience (ENVIRON ENG GEOSCI)
ISSN 1078-7275, Geological Society of America, P.O. Box 9140, 3300
Penrose Place, Boulder, CO 80301, Quarterly, \$125.00.
Journal of Fourier Analysis and Applications (J FOURIER ANAL APPL)
ISSN 1069-5869, CRC Press, Inc., 2000 Corporate Blvd. N.W., Boca
Raton, FL 33431, Quarterly, Individuals \$80.00, Institutions \$195.00.
Pure and Applied Optics (PURE APPL OPT) ISSN 0963-9659, IOP
Publishing Ltd., Dirac House, Temple Black, Bristol, England, BS1 6BE,
Bimonthly, \$426.00.

114	METAL SCI HEAT TREAT-ENGL TR,38 (11-12)	77	INFORM SCIENCES,101 (3-4)
124	MICROWAVE OPT TECHNOL LETT,15 (6)	81	INSTRUM SCI TECHNOL,25 (3)
53	MICROWAVE RF,36 (7)	106	INT APPL MECH-ENGL TR,32 (9)
110	MODAL ANALYSIS,11 (3-4)	59	INT J ADV MANUF TECHNOL,13 (5)
98	MODEL SIMUL MATER SCI ENG,5 (3)	52	INT J CIRCUIT THEOR APPL,25 (4)
34	MULTIMED TOOLS APPL,5 (1)	33	INT J HIGH SPEED COMPUT,8 (4)
99	NDT E INT,30 (5)	52	INT J INFRAR MILLIM WAVE,18 (7)
12	NEURAL COMPUT,9 (6)	12	INT J INTELL SYST,12 (8)
59	NEW SCI,155 (2091)	106	INT J MULTIPHASE FLOW,23 (5)
61	NEW SCI,155 (2092)	107	INT J NON-LINEAR MECH,33 (1)
118	NUCL INSTRUM METH PHYS RES A,391 (3)	66	INT J NUMER METHOD ENG,40 (15)
119	NUCL INSTRUM METH PHYS RES B,129 (2)	53	INT J NUMER MODEL ELECTRON N,10 (4)
111	NUMER HEAT TRANSFER PT A-APPL,32 (1)	12	INT J ROBUST NONLINEAR CONTR,7 (7)
111	NUMER HEAT TRANSFER PT B-FUND,32 (1)	114	IRONMAKING STEELMAKING,24 (1)
124	OPTICS LETTERS,22 (15)	122	ISPRS J PHOTOGRAMM,52 (3)
125	OPTIK,105 (4)	70	J AGR ENG RES,67 (2)
13	PATT RECOG,30 (9)	8	J AIRCRAFT,34 (4)
126	PHOTOGRAMM ENG REMOTE SENSING,63 (8)	8	J AMER HELICOPTER SOC,42 (3)
99	PHYS CHEM GLASSES,38 (3)	88	J AMER LEATHER CHEM ASSN,92 (1)
54	POWER ENG J,11 (1)	88	J CERAMIC SOC JPN,105 (7)
31	PROC INST CIVIL ENG MUNIC ENG,121 (2)	26	J CONSTR STEEL RES,42 (2)
111	PROC INST MECH ENG C-J MECH E,211 (3)	89	J ELECTROCHEM SOC,144 (7)
112	PROC INST MECH ENG H,211 (3)	107	J ENG MECH-ASCE,123 (8)
79	RADIOOTEKH ELEKTRON,42 (6)	71	J ENVIRON ENG-ASCE,123 (8)
77	RADIO SCI,32 (4)	91	J FIRE SCI,15 (3)
62	R&D MAG,39 (9)	67	J FOURIER ANAL APPL,3 (1)
128	PURE APPL OPT,6 (4)	67	J FOURIER ANAL APPL,3 (2)
127	PURE APPL OPT,6 (3)	67	J FOURIER ANAL APPL,3 (3)
127	PURE APPL OPT,6 (2)	26	J GEOTECH GEONVIRON ENG,123 (8)
126	PURE APPL OPT,6 (1)	27	J HYDRAUL ENG-ASCE,123 (8)
100	PROG ORG COATING,30 (4)	27	J HYDROL,194 (1-4)
112	PROC INST MECH ENG H,211 (3)	28	J HYDROL,195 (1-4)
112	REV GEN THERM,36 (5)	29	J HYDROL,196 (1-4)
100	RUSS J NONDESTRUCT T-ENGL TR,32 (11)	29	J IRRIG DRAIN ENG-ASCE,123 (4)
63	SAF SCI,26 (3)	30	J MATER CIVIL ENG,9 (3)
115	SCAND J METALL,26 (1)	108	J MATER PROCESS TECHNOL,68 (2)
82	SENSOR ACTUATOR A-PHYS,58 (3)	122	J OPT SOC AM A-OPT IMAGE SCI,14 (8)
83	SENSOR ACTUATOR A-PHYS,59 (1-3)	67	J OPTIMIZ THEOR APPL,94 (2)
68	SIAM J DISCRETE MATH,10 (3)	23	J PRAKT CHEM-CHEM ZTG,339 (5)
32	SOIL DYNAM EARTHQUAKE ENG,16 (5)	92	J PULP PAP SCI,23 (7)
54	SOLID STATE ELECTRON,41 (8)	92	J SOL-GEL SCI TECHNOL,10 (1)
34	SPEECH COMMUN,21 (4)	30	J STRUCT ENG-ASCE,123 (8)
116	STEEL RES,68 (7)	33	J SYST ARCHITECT,43 (9)
116	STEEL TRANSL,26 (7)	33	J SYST SOFTWARE,39 (1)
14	SYST CONTROL LETT,31 (1)	93	J TEXT INST,87 (1996)P3,SI
14	SYST CONTROL LETT,31 (2)	108	J THERMAL STRESSES,20 (5)
63	TECHNOL REV,100 (6)	93	J THERMOPLAST COMPOS MATER,10 (4)
80	TELECOMMUN POLICY,21 (5)SI	109	J TRIBOL-TRANS ASME,119 (3)
101	TEXT CHEM COLOR,29 (7)	12	KNOWL-BASED SYST,9 (8)
34	THEOR COMPUT SCI,181 (1)	110	LUBRIC ENG,53 (7)
34	THEOR COMPUT SCI,181 (2)	93	MATER CHEM PHYS,49 (2)
101	THIN SOLID FILMS,303 (1-2)	94	MATER CORROS,48 (7)
71	TRANS ASAE,40 (3)	95	MATER SCI ENG A-STRUCT MATER,229 (1-2)
128	ULTRASONICS,35 (3)	95	MATER SCI ENG A-STRUCT MATER,230 (1-2)
112	VEH SYST DYN,28 (1)	96	MATER SCI ENG A-STRUCT MATER,231 (1-2)
64	VESTN ROSSIJSKOI AKAD NAUK,67 (5)	97	MATER SCI ENG B-SOLID STATE M,47 (2)
73	WATER ENVIRON RES,69 (5)	68	MATH COMPUT MODELING,25 (11)
113	Z ANGEW MATH MECH,77 (7)	81	MEAS SCI TECHNOL,8 (7)
117	Z METALLK,88 (6)	98	MECH COHESIVE-FRICT MATER,2 (3)