

January 27, 1997

BIBLIOTHÈQUE DU PRÊT

Volume 28

Number 4

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
Signal & Image Processing • Telecommunications

ISISM

Institute for Scientific InformationSM

3501 Market Street, Philadelphia, PA 19104 U.S.A.

VOLUME January 27, 1997

28

NUMBER

4

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 #1, January 6, 1997.

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

FEATURES

5 Current Book Contents®

DISCIPLINE GUIDE

- 8 Aerospace Engineering
- 8 AI, Robotics & Automatic Control
- 11 Chemical Engineering
- 21 Civil Engineering
- 27 Computer Engineering, Technology & Applications
- 35 Electrical and Electronics Engineering
- 45 Engineering Management/General
- 52 Engineering Mathematics
- 53 Environmental Engineering/Energy

- 59 Geological/Petroleum/Mining Engineering
- 61 Information Technology & Communications Systems
- 65 Instrumentation/Measurement
- 73 Materials Science and Engineering
- 99 Mechanical Engineering
- 108 Metallurgy
- 110 Nuclear Engineering
- 117 Optics & Acoustics

INDEXES

- 122 Title Word Index
- 149 Author Index & Address Directory
- 167 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:

- | | |
|---|--|
| 8 ACTA ASTRONAUT,38 (11) | 76 FATIGUE FRACT ENG MATER STRUC,19 (12) |
| 99 ACTA MECH SINICA,12 (4) | 14 FILTR SEP,33 (10) |
| 73 ADVAN MATER,8 (12) | 14 FLUID PHASE EQUILIBRIA,127 (1-2) |
| 35 AEI AUTOM ENERG INF,83 (12) | 15 HEAT TRANSFER ENG,17 (4) |
| 99 AEROSOL SCI TECH,26 (1) | 15 HYDROCARB PROCESS,75 (12) |
| 8 AI MAG,17 (4) | 37 IEE PROC-ELECTR POWER APPL,143 (6) |
| 52 ALGORITHMICA,17 (3) | 38 IEE PROC-SCI MEAS TECHNOL,143 (6) |
| 110 AT ENERGY-ENGL TR,80 (5) | 61 IEEE COMMUN MAG,34 (12) |
| 11 ATOMIZATION SPRAYS,6 (6) | 29 IEEE COMPUT GRAPH APPL,17 (1) |
| 9 AUTOMAT REMOTE CONTR-ENGL TR,57 (7)P1 | 52 IEEE COMPUT SCI ENG,3 (4) |
| 21 CAN J CIVIL ENG,23 (6) | 38 IEEE J QUANTUM ELECTRON,33 (1) |
| 12 CHEM ENG J,64 (1) | 11 IEEE ROBOT AUTOMAT,3 (4) |
| 12 CHEM ENG PROCESS,36 (1) | 39 IEEE TRANS BIOMED ENG,44 (1) |
| 13 CHEM IND-LONDON,1996 (24) | 30 IEEE TRANS CIRCUIT SYST-II,43 (12) |
| 13 CHEM-ING-TECH,68 (12) | 54 IEEE TRANS ENERGY CONVERS,11 (4) |
| 27 CHICAGO J THEOR COMPUT SCI,1996 (6) | 31 IEEE TRANS PARALL DISTRIB SYS,7 (12) |
| 99 COMBUST FLAME,108 (1-2) | 40 IEEE TRANS SIGNAL PROCESS,44 (12) |
| 27 COMMUN ACM,40 (1) | 31 IEEE TRANS SOFTWARE ENG,22 (11) |
| 35 COMPEL-INT J COMPUT MATH ELEC,15 (4) | 31 IEEE TRANS VISUAL COMPUT GR,2 (4) |
| 61 COMPUT COMMUN,19 (11) | 62 IEICE TRANS COMMUN,E79B (12) |
| 28 COMPUT GRAPH,20 (5) | 41 IEICE TRANS ELECTRON,E79C (12) |
| 28 COMPUT IND,32 (2) | 42 IEICE TRANS FUND ELEC COM COM,E79A (12) |
| 29 COMPUT J,39 (6) | 63 IEICE TRANS INFORM SYST,E79D (12) |
| 100 COMPUT METHOD APPL MECH ENG,139 (1-4) | 45 IIE SOLUTIONS,29 (1) |
| 29 COMPUT SECURITY,15 (6) | 16 INDIAN J CHEM TECHNOLOGY,4 (1) |
| 101 CONTINUUM MECH THERMODYN,8 (6) | 63 INF PROCESS LETT,60 (3) |
| 74 CORROS SCI,38 (12) | 43 INT J CIRCUIT THEOR APPL,24 (6) |
| 9 CYBERN SYST,27 (6) | 101 INT J COMPUT FLUID DYNAMICS,7 (3) |
| 10 CYBERN SYST ANAL-ENGL TR,32 (2) | 101 INT J HEAT MASS TRANSFER,40 (6) |
| 75 DIAM RELAT MATER,5 (12) | 59 INT J MINER PROCESS,48 (3-4) |
| 35 ELEC MACH POWER SYST,24 (8) | 46 INT J PROD ECON,46 (DEC) |
| 36 ELEC POWER SYST RES,37 (3) | 102 INT J SOLIDS STRUCT,34 (4) |
| 36 ELECTR ENG,79 (6) | 32 INT J SUPERCOMPUT APPL,10 (1) |
| 37 ELECTRON COMMUN ENG J,8 (6) | 32 INT J SUPERCOMPUT APPL,10 (2-3) |
| 37 ELECTRON INFORM PLAN,23 (9) | 64 INTERNET RES,6 (4) |
| 53 ENERG BLDG,24 (3) | 76 J AMER LEATHER CHEM ASSN,91 (9) |
| 53 ENERG CONV MANAGE,38 (4) | 76 J APPL POLYM SCI,63 (2) |
| 53 ENERGY,22 (1) | 77 J APPL POLYM SCI,63 (3) |
| 22 ENG J AMER INST STEEL CONSTR,33 (4) | 78 J APPL POLYM SCI,63 (4) |

CONTINUED

CONTINUED

- | | | | |
|-----|--|-----|--|
| 11 | J ARTIF INTELL RES,5 (1996) | 66 | MED BIOL ENG COMPUT,34 (6) |
| 17 | J CHEM ENG JPN,29 (6) | 67 | MICROSC RES TECHNIQUE,35 (4) |
| 18 | J CHEM TECHNOL BIOTECHNOL,67 (4) | 95 | MOKUZAI GAKKAISHI,42 (10) |
| 78 | J COATING TECHNOL,68 (863) | 33 | NETWORKS,29 (1) |
| 117 | J COMPUT ACOUST,4 (4) | 48 | NEW SCI,152 (2061-2) |
| 33 | J CRYPTOL,10 (1) | 112 | NUCL INSTRUM METH PHYS RES A,382 (3) |
| 65 | J DYN SYST MEAS CONTR,118 (4) | 113 | NUCL INSTRUM METH PHYS RES A,383 (1) |
| 79 | J ELECTROCHEM SOC,143 (12) | 115 | NUCL INSTRUM METH PHYS RES A,383 (2-3) |
| 102 | J ENHANC HEAT TRANSF,4 (1) | 108 | NUMER HEAT TRANSFER PT A-APPL,30 (7) |
| 103 | J FLUID MECH,328 (DEC 10) | 60 | OIL GAS J,94 (52) |
| 103 | J FLUID STRUCTURE,10 (8) | 60 | OIL SHALE,13 (4) |
| 23 | J HYDRAUL RES,34 (5) | 120 | OPT LASER ENG,26 (6) |
| 23 | J HYDROL,186 (1-4) | 96 | OPT MATER,6 (4) |
| 24 | J HYDROL,187 (1-2) | 120 | OPT REV,3 (5) |
| 55 | J INST ENVIRON SCI,39 (6) | 97 | PAP PUU-PAP TIM,78 (10) |
| 48 | J INTELL MANUF,7 (6) | 109 | PLAT SURF FINISH,84 (1) |
| 103 | J JPN SOC TRIBOLOGIST,41 (11) | 55 | POWER ENG,100 (13) |
| 118 | J LASER APPL,8 (6) | 21 | PROCESS SAF ENVIRON PROT,74 (B4) |
| 81 | J MATER SCI LETT,15 (23) | 8 | RECH AEROSP,1996 (4) |
| 82 | J MATER SCI TECHNOL,13 (1) | 50 | RES ENG DESIGN,8 (4) |
| 111 | J NUCL SCI TECHNOL,33 (11) | 50 | RES TECHNOL MANAGE,40 (1) |
| 83 | J POLYM ENG,16 (3) | 68 | REV SCI INSTR,67 (12) |
| 44 | J POWER SOURCES,62 (2) | 51 | SAF SCI,24 (2) |
| 44 | J POWER SOURCES,63 (1) | 70 | SENSOR ACTUATOR A-PHYS,56 (1-2) |
| 33 | J PROGRAM LANG,4 (4) | 71 | SENSOR ACTUATOR A-PHYS,56 (3) |
| 11 | J ROBOTIC SYST,14 (1) | 72 | SENSOR ACTUATOR B-CHEM,32 (3) |
| 59 | J S AFR INST MIN MET,96 (6) | 72 | SHARP TECH J,1996 (66) |
| 118 | J SOUND VIB,198 (5) | 64 | SMPTE J,106 (1) |
| 104 | J STRAIN ANAL ENG DESIGN,31 (6) | 34 | SOFTWARE ENG J,11 (6) |
| 33 | J SYST ARCHITECT,42 (5) | 34 | SOFTWARE-PRACT EXP,26 (12) |
| 83 | J TEST EVAL,24 (6) | 56 | SOLAR ENERG,57 (2) |
| 104 | J THERMAL STRESSES,19 (9) | 97 | SOLAR ENERG MATER SOLAR CELLS,44 (4) |
| 84 | J VAC SCI TECHNOL B,14 (6) | 24 | STRUCT DES TALL BUILDINGS,5 (4) |
| 19 | JOCCA-SURF COATING INT,79 (12) | 25 | STRUCT ENG MECH,4 (6) |
| 105 | JSME INT J SER B,39 (4) | 25 | STRUCT SAF,18 (4) |
| 20 | KINET CATAL-ENGL TR,37 (6) | 73 | TECH MESS,63 (12) |
| 119 | LASER PHYS,6 (6) | 51 | TECHNOVATION,16 (10) |
| 91 | MATER LETT,29 (4-6) | 98 | TEXT RES J,66 (12) |
| 92 | MATER SCI ENG A-STRUCT MATER,220 (1-2) | 34 | THEOR COMPUT SCI,170 (1-2) |
| 93 | MATER SCI ENG B-SOLID STATE M,42 (1-3) | 56 | TRANS ASAE,39 (6) |
| 108 | MATER TRANS JIM,37 (11) | 25 | TRANSPORT RES C-EMERG TECHNOL,4 (5) |
| 106 | MATH MECH SOLIDS,1 (4) | 98 | VIDE,52 (282) |
| 66 | MEAS SCI TECHNOL,7 (12) | 58 | WASTE MANAGE RES,14 (6) |
| 106 | MECH ENG,118 (11) | 26 | WATER RESOUR RES,33 (1) |
| 108 | MECH RES COMMUN,23 (6) | 121 | ZH NAUCH PRIKL FOTOGRAF,41 (5) |

The publisher's name appears with the journal title of each contents page. The address of each publisher is provided at the end of this issue.

Full-text articles.
Fast delivery.

**THE
Genuine
Article®**

Call 800-336-4474 or 215-386-0100.