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FN ISI Export Format  
PT Journal  
AU Leu, JF  
    Tsay, SY  
    Hwang, C  
TI Design of optimal fractional-order PID controllers  
SO JOURNAL OF THE CHINESE INSTITUTE OF CHEMICAL ENGINEERS  
LA English  
DT Article  
NR 17  
SN 0368-1653  
PU CHINESE INST CHEMICAL ENGINEER  
C1 Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
    Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
    Natl Cheng Kung Univ, Dept Chem Engn, Tainan 701, Taiwan  
DE fractional-order PID; gain margin; phase margin; optimal  
    controller tuning  
ID SYSTEMS  
CR ASTROM KJ, 2000, P IFAC WORKSH DIG CO, P181  
    CHENG SL, 1998, CHEM ENG COMMUN, V170, P83  
    HWANG C, 1994, CONTROL COMPUT, V22, P90  
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    HWANG JH, 2001, UNPUB CHEM ENG COMMU  
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    NAKAGAWA M, 1992, IEICE T FUND ELECTR, V75, P1814  
    **PETRAS I, 2000, P IFAC C CONTR SYST, P454**  
    **PETRAS I, 1999, SACTA, V2, P75**  
    **PETRAS I, 1999, J ELECT ENG, V50, P284**  
    PODLUBNY I, 1998, FRACTIONAL DIFFERENT  
    PODLUBNY I, 1999, IEEE T AUTOMAT CONTR, V44, P208  
    PRICE FV, 1997, SEMIN ONCOL S15, V24, P78  
    RAYNAUD HF, 2000, AUTOMATICA, V36, P1017  
TC 0  
BP 193  
EP 202  
PG 10  
JI J. Chin. Inst. Chem. Eng.  
PY 2002  
PD MAR  
VL 33  
IS 2  
GA 555PW  
PI TAIPEI  
RP Hwang C  
    Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
J9 J CHINESE INST CHEM ENGINEERS  
PA NATL TSING HUA UNIV, HSINCHU, DEPT CHEMICAL ENGINEERING, TAIPEI  
    300, TAIWAN  
UT ISI:000175803300010

PT Journal  
 AU Hwang, C  
 Leu, JF  
 Tsay, SY  
 TI A note on time-domain simulation of feedback fractional-order systems  
 SO IEEE TRANSACTIONS ON AUTOMATIC CONTROL  
 LA English  
 DT Article  
 NR 22  
 SN 0018-9286  
 PU IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC  
 C1 Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
 Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
 Natl Cheng Kung Univ, Dept Chem Engn, Tainan 701, Taiwan  
 DE fractional calculus; fractional-order PID controller; fractional-order system; inverse Laplace transform; time-domain simulation  
 CR \*IMSL INC, 1989, USERS MANUAL IMSL MA  
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**PETRAS I, 1999, J ELECT ENG, V50, P284**  
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**PETRAS I, 1999, SACTA, V2, P75**  
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 RAYNAUD HF, 2000, AUTOMATICA, V36, P1017  
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 TC 0  
 BP 625  
 EP 631  
 PG 7  
 JI IEEE Trans. Autom. Control  
 PY 2002  
 PD APR  
 VL 47  
 IS 4  
 GA 540GV  
 PI NEW YORK  
 RP Hwang C  
 Natl Chung Cheng Univ, Dept Chem Engn, Chiayi 621, Taiwan  
 J9 IEEE TRANS AUTOMAT CONTR  
 PA 345 E 47TH ST, NEW YORK, NY 10017-2394 USA  
 UT ISI:000174921900006

PT Journal  
AU Kostur, K  
Laciak, M  
TI Model for indirect measurements of LD-steelmaking process  
SO METALURGIJA  
LA English  
DT Article  
NR 4  
SN 0543-5846  
PU CROATIAN METALLURGICAL SOC  
C1 Tech Univ Kosice, Fac BERG, Kosice, Slovakia  
DE LD-process; indirect measurements; regression analysis;  
predictions  
CR FLOREKOVA L, 1986, MATEMATICKE MODELOVA  
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**KOSTIAL I, PETRAS I, 2001, METALURGIJA, V40, P147**  
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TC 0  
BP 113  
EP 116  
PG 4  
JI Metalurgija  
PY 2002  
PD APR-JUN  
VL 41  
IS 2  
GA 532AV  
PI ZAGREB  
RP Tech Univ Kosice, Fac BERG, Kosice, Slovakia  
J9 METALURGIJA  
PA BERISLAVICEVA 6, ZAGREB, CROATIA  
UT ISI:000174450200010

PT Journal  
 AU Chen, YQ  
 Moore, KL  
 TI Discretization schemes for fractional-order differentiators and  
 integrators  
 SO IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-FUNDAMENTAL THEORY  
 AND APPLICATIONS  
 LA English  
 DT Article  
 NR 24  
 SN 1057-7122  
 PU IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC  
 C1 Utah State Univ, Coll Engr, Dept Elect & Comp Engr, Ctr Self  
 Organizing & Intelligent Syst, Logan, UT 84322 USA  
 DE Al-Alaoui operator; discretization; fractional differentiator;  
 fractional-order differentiator; fractional-order dynamic  
 systems; recursive; Tustin operator  
 CR ALALAOUI MA, 1993, ELECTRON LETT, V29, P376  
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 SAMKO SG, 1987, NAUKA TECHNIKA  
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 BP 363  
 EP 367  
 PG 5  
 JI IEEE Trans. Circuits Syst. I-Fundam. Theor. Appl.  
 PY 2002  
 PD MAR  
 VL 49  
 IS 3  
 GA 528XR  
 PI NEW YORK  
 RP Chen YQ  
 Utah State Univ, Logan, UT 84322 USA  
 J9 IEEE TRANS CIRCUIT SYST-I  
 PA 345 E 47TH ST, NEW YORK, NY 10017-2394 USA  
 UT ISI:000174270700014  
 PT Journal

AU Lesso, I  
TI The monitoring system of a tunnel furnace  
SO METALURGIJA  
LA English  
DT Article  
NR 6  
SN 0543-5846  
PU CROATIAN METALLURGICAL SOC  
C1 Tech Univ, Fac BERG, Kosice, Slovakia  
DE tunnel furnace; monitoring; data aquisition; temperature regimes  
CR DORCAK L, ASR TP 94, P58  
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**PETRAS I, 1999, J ELECT ENG, V50, P284**  
TC 0  
BP 229  
EP 231  
PG 3  
JI Metalurgija  
PY 2001  
PD OCT-DEC  
VL 40  
IS 4  
GA 475YY  
PI ZAGREB  
RP Tech Univ, Fac BERG, Kosice, Slovakia  
J9 METALURGIJA  
PA BERISLAVICEVA 6, ZAGREB, CROATIA  
UT ISI:000171198800008

PT Journal  
AU Lesso, I  
TI The design of a control system of ignition head at the  
stabilization level in VSZ inc. Kosice  
SO METALURGIJA  
LA English  
DT Article  
NR 13  
SN 0543-5846  
PU CROATIAN METALLURGICAL SOC  
C1 Tech Univ Kosice, BERG Fac, Kosice, Slovakia  
DE control system; sintering; blast furnace  
CR \*CSAV PRAH, 1990, AD PID REG MON MIKR  
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TC 0  
BP 101  
EP 105  
PG 5  
JI Metalurgija  
PY 2000  
PD APR-JUN  
VL 39  
IS 2  
GA 295LF  
PI ZAGREB  
RP Tech Univ Kosice, BERG Fac, Kosice, Slovakia  
J9 METALURGIJA  
PA BERISLAVICEVA 6, ZAGREB, CROATIA  
UT ISI:000085967000006

PT Journal  
 AU Chen, YQ, Moore, KL  
 TI Analytical stability bound for a class of delayed fractional-  
 order dynamic systems  
 SO NONLINEAR DYNAMICS  
 DT Article  
 NR 43  
 SN 0924-090X  
 PU KLUWER ACADEMIC PUBL  
 C1 Utah State Univ, CSOIS, Dept Elect & Comp Engn, Logan, UT 84322,USA  
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**PETRAS I, 1998, ACTA MONTANISTICA SL, V2, P143**  
**PETRAS I, 2000, P INT CARP CONTR C I, P261**  
**PETRAS I, 1999, SACTA, V2, P75**  
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 PODLUBNY I, 1997, P 9 INT BERG C KOS S, P119  
 PODLUBNY I, 1995, T TU KOSICE, V5, P137  
 PODLUBNY I, 1994, UEF0394 AC SCI I EXP  
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 EP 200  
 PY 2002  
 UT ISI:000177142500011

PT Journal  
 AU Sabatier, J, Oustaloup, A, Iturricha, AG, Lanusse, P  
 TI CRONE control: Principles and extension to time-variant plants  
 with asymptotically constant coefficients  
 SO NONLINEAR DYNAMICS  
 LA English  
 DT Article  
 NR 30  
 SN 0924-090X  
 PU KLUWER ACADEMIC PUBL  
 C1 Univ Bordeaux 1, CNRS, LAP, UMR 5131,ENSEIRB, 351 Cours  
 Liberat, F-33405 Talence, France  
 Univ Bordeaux 1, CNRS, LAP, UMR 5131,ENSEIRB, F-33405 Talence,  
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 ID OPTIMIZATION; SYSTEMS  
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 TC 0  
 BP 363  
 EP 385  
 PG 23  
 JI Nonlinear Dyn.  
 PY 2002  
 PD JUL-SEP  
 VL 29  
 IS 1-4  
 PI DORDRECHT  
 PA VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS  
 UT ISI:000177142500020

PT Journal  
 AU Duarte, FBM  
 Machado, JAT  
 TI Chaotic phenomena and fractional-order dynamics in the  
 trajectory control of redundant manipulators  
 SO NONLINEAR DYNAMICS  
 DT Article  
 NR 76  
 SN 0924-090X  
 PU KLUWER ACADEMIC PUBL  
 C1 Sch Technol, Polytech Inst Viseu, Dept Math, Campus Politecn,  
 P-3504510 Viseu, Portugal  
 Sch Technol, Polytech Inst Viseu, Dept Math, P-3504510 Viseu,  
 Portugal  
 Politech Inst Porto, Inst Engn, Dept Elect Engn, P-4200072 Oporto,  
 Portugal  
 DE planar manipulators; redundant manipulators; chaos; fractional  
 calculus  
 ID VISCOELASTICALLY DAMPED STRUCTURES; ROBOT MANIPULATORS;  
 PSEUDOINVERSE CONTROL; KINEMATIC CONTROL; FLUID DAMPERS;  
 DERIVATIVES; CALCULUS; MODEL; EQUATIONS; OPERATORS  
 AB Redundant manipulators have some advantages when compared with  
 classical arms because they allow the trajectory optimization,  
 both on the free space and on the presence of obstacles, and  
 the resolution of singularities. For this type of arms the  
 proposed kinematic control algorithms adopt generalized inverse  
 matrices but, in general, the corresponding trajectory planning  
 schemes show important limitations. Motivated by these problems  
 this paper studies the chaos revealed by the pseudoinverse-  
 based trajectory planning algorithms, using the theory of  
 fractional calculus.  
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 WEBMAN I, 1984, J STAT PHYS, V6, P603  
 YOSHIKAWA T, 1988, FDN ROBOTICS ANAL CO  
 BP 315 EP 342 PG 28 JI Nonlinear Dyn. PY 2002  
 PD JUL-SEP VL 29 IS 1-4 GA 578VV PI DORDRECHT  
 RP Duarte FBM  
 Sch Technol, Polytech Inst Viseu, Dept Math, Campus Politecn, P-  
 504510 Viseu, Portugal  
 UT ISI:000177142500018