

Monthly Table of Contents

JANUARY
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8901A	Page	Frame
*Journal of Chemical Physics 15 December 88, vol. 89, no. 12	7049- 7768	0001- 0720
Journal of Vacuum Science & Technology B Nov/Dec 88, vol. 6, no. 6	1612- 2408	0721- 1508
Review of Modern Physics November 88, vol. 60, no. 4	0859- 1194	1509- 1844
Physical Review Letters 05 December 88, vol. 61, no. 23	2635- 2728	1845- 1938
Physical Review Letters 12 December 88, vol. 61, no. 24	2729- 2820	1939- 2030
Physical Review Letters 19 December 88, vol. 61, no. 25	2821- 2900	2031- 2110
Physical Review Letters 26 December 88, vol. 61, no. 26	2901- 3015	2111- 2224

CPM 8901B	Page	Frame
Physical Review A 1 December 88, vol. 38, no. 11	5479- 5984	0001- 0506
Physical Review A 15 December 88, vol. 38, no. 12	5985- 6480	0507- 1002
Physical Review C December 88, vol. 38, no. 6	2495- 3014	1003- 1522
Physical Review D: Particles & Fields 1 December 88, vol. 38, no. 11	3351- 3604	1523- 1776
Applied Physics Letters 26 December 88, vol. 53, no. 26	2579- 2730	1777- 1928
Applied Physics Letters 26 December 88, vol. 53 (AI)	2731- 2906	1929- 2104
Physical Review Letters 2 January 89, vol. 62, no. 1	0001- 0116	2105- 2220

CPM 8901C	Page	Frame
Journal of Physical Reference Data October/December 88, vol. 17, no. 4	1377- 1846	0001- 0470
Journal of Physical Reference Data October/December 88, vol. 17, Suppl. 2	0001- 0322	0471- 0792
AIP Conference Proceedings December 88, vol. 177	0001- 0378	0793- 1170
AIP Conference Proceedings December 88, vol. 178	0001- 0493	1171- 1663
AIP Conference Proceedings December 88, vol. 179	0001- 0317	1664- 1980
Physics Today December 88, vol. 41, no. 12	0001- 0176	1981- 2156

Bulletin of the American Physical Society December 88, vol. 33, no. 11, Part 1	2337- 2374	2157- 2194
---	---------------	---------------

Bulletin of the American Physical Society January-December 88	0001- 0064	2195- 2258
--	---------------	---------------

CPM 8901D	Page	Frame
Journal of the Optical Society of America A December 88, vol. 5, no. 12	2019- 2242	0001- 0224
Journal of the Optical Society of America B December 88, vol. 5, no. 12	2409- 2600	0225- 0416
Applied Optics 1 December 88, vol. 27, no. 23	4791- 4986	0417- 0612
Applied Optics 15 December 88, vol. 27, no. 24	4987- 5260	0613- 0886
Bulletin of the American Astronomical Society December 88, vol. 20, no. 4	0915- 1132	0887- 1104
Journal of the Optical Society of America A January 89, vol. 6, no. 1	0001- 0168	1105- 1272
Journal of the Optical Society of America B January 89, vol. 6, no. 1	0001- 0136	1273- 1408
Bulletin of the American Physical Society January 89, vol. 34, no. 1	0001- 0158	1409- 1566
The Physics Teacher December 88, vol. 26, no. 9	0551- 0608	1567- 1624
The Physics Teacher January 89, vol. 27, no. 1	0001- 0064	1625- 1688
Physics Today January 89, vol. 42, no. 1	0001- 0156	1689- 1844
Journal of Vacuum Science & Technology Jan-Feb 89, vol. 7, no. 1	0001- 0124	1845- 1968
Optics Letters January 89, vol. 14, no. 1	0001- 0106	1969- 2074
Optics News January 89, vol. 15, no. 1	0001- 0064	2075- 2138

CPM 8901E	Page	Frame
Journal of Applied Physics 1 January 89, vol. 65, no. 1	0001- 0410	0001- 0410
Journal of Applied Physics 15 January 89, vol. 65, no. 2	0411- 0886	0411- 0886
Astronomical Journal January 89, vol. 97, no. 1	0001- 0314	0887- 1200
Journal of Mathematical Physics January 89, vol. 30, no. 1	0001- 0242	1201- 1442
*Journal of Chemical Physics 1 January 89, vol. 90, no. 1	0001- 0614	1443- 2056
Computers in Physics Jan/Feb 89, vol. 3, no. 1	0001- 0096	2057- 2152

CPM 8901F	Page	Frame
Physical Review B 15 December 88, vol. 38, no. 16-Part A	11001- 11542	0001- 0542
Physical Review B: Condensed Matter 1 December 88, vol. 38, no. 16, Part B	11543- 12084	0543- 1084
*Journal of Chemical Physics 15 January 89, vol. 90, no. 2	0615- 1298	1085- 1768
Applied Physics Letters 2 January 89, vol. 54, no. 1	0001- 0086	1769- 1854
Applied Physics Letters 9 January 89, vol. 54, no. 2	0087- 0192	1855- 1960
Applied Physics Letters 16 January 89, vol. 54, no. 3	0193- 0294	1961- 2062
Applied Physics Letters 23 January 89, vol. 54, no. 4	0295- 0402	2063- 2169

CPM 8901G	Page	Frame
Physical Review B: Condensed Matter 15 December 88, vol. 38, no. 17, Part I	12085- 12806	0001- 0722
Physical Review B: Condensed Matter 15 December 88, vol. 38, no. 17, Part II	12807- 13568	0723- 1484
American Journal of Physics January 89, vol. 57, no. 1	0001- 0096	1485- 1580
Physical Review D: Particles & Fields 15 December 88, vol. 38, no. 12	3605- 3870	1581- 1845
Review of Scientific Instruments January 89, vol. 60, no. 1	0001- 0164	1846- 2009

CPM 8901X	Page	Frame
Soviet Physics-Uspekhi January 88, vol. 31, no. 1	0001- 0100	0001- 0100
Soviet Physics-JETP June 88, vol. 67, no. 6	1085- 1296	0101- 0312

Soviet Physics-Semiconductors June 88, vol. 22, no. 6	0613- 0728	0313- 0428
Soviet Technical Physics Letters April 88, vol. 14, no. 4	0257- 0342	0429- 0514
Soviet Astronomy Mar-Apr 88, vol. 32, no. 2	0115- 0230	0515- 0630
Soviet Physics-Uspekhi February 88, vol. 31, no. 2	0101- 0180	0631- 0710
Soviet Physics-Uspekhi March 88, vol. 31, no. 3	0181- 0288	0711- 0818
Soviet Astronomy Letters May/June May 88, vol. 14, no. 3	0163- 0246	0819- 0902
Optics & Spectroscopy March 88, vol. 6, no. 3	0283- 0426	0903- 1046
Optics & Spectroscopy April 88, vol. 6, no. 4	0427- 0576	1047- 1196
Chinese Physics-Lasers April 88, vol. 15, no. 4	0241- 0318	1197- 1274
Chinese Physics-Lasers May 88, vol. 15, no. 5	0319- 0400	1275- 1356
Soviet Journal of Quantum Electronics July 89, vol. 18, no. 7	0829- 0954	1357- 1482
JETP Letters 25 May 88, vol. 47, no. 10	0565- 0634	1483- 1552
JETP Letters 10 June 88, vol. 47, no. 11	0635- 0704	1553- 1622
Soviet Journal of Low Temperature Physics February 88, vol. 14, no. 2	0063- 0122	1623- 1682
Soviet Journal of Low Temperature Profiles March 88, vol. 14, no. 3	0123- 0186	1683- 1766
Soviet Physics-Doklady March 88, vol. 33, no. 3	0155- 0238	1767- 1850
Soviet Journal of Plasma Physics June 88, vol. 14, no. 6	0377- 0452	1851- 1926
Soviet Physics-Solid State May 88, vol. 30, no. 5	0735- 0916	1927- 2108
Soviet Physics-Technical Physics February 88, vol. 33, no. 2	0135- 0262	2109- 2236

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

A. Knight & S. Kable, J. Chem. Phys., Vol. 89, No. 12 (15 December 1988) p. 7139 (101 pp., 2 fiche).

P. Senn *et al.*, J. Chem. Phys., Vol. 89, No. 12 (15 December 1988) p. 7401 (224 pp., 3 fiche).

Frank Webster & J. C. Light, J. Chem. Phys., Vol. 90, No. 1 (1 January 1989) p. 300 (98 pp., 1 fiche).

H. Partridge, J. Chem. Phys., Vol. 90, No. 2 (15 January 1989) p. 1043 (213 pp., 3 fiche).

Monthly Table of Contents

FEBRUARY
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8902A	Page	Frame
Journal of Applied Physics 1 February 89, Vol. 65, No. 3	0887- 1394	0001- 0508
Physics of Fluids A January 89, Vol. 1, No. 1	0001- 0166	0509- 0674
Physics of Fluids B January 89, Vol. 1, No. 1	0001- 0270	0675- 0944
Journal of the Acoustical Society of America January 89, Vol. 85, No. 1	0001- 0534	0945- 1478
The Astronomical Journal February 89, Vol. 97, No. 2	0315- 0626	1479- 1789
American Journal of Physics February 89, Vol. 57, No. 2	0097- 0192	1790- 1884
Applied Physics Letters 30 January 89, Vol. 54, No. 5	0403- 0474	1885- 1956
Applied Physics Letters 6 February 89, Vol. 54, No. 6	0475- 0596	1957- 2078
Computers in Physics March/April 89, Vol. 3, No. 2	0001- 0096	2079- 2174
Optics Letters 1 February 89, Vol. 14, No. 3	0151- 0192	2175- 2215

CPM 8902B	Page	Frame
Journal of Applied Physics 15 February 89, Vol. 65, No. 4	1395- 1822	0001- 0428
Journal of the Acoustical Society of America February 89, Vol. 85, No. 2	0435- 0994	0429- 0888
The Journal of Chemical Physics 1 February 89, Vol. 90, No. 3	1299- 2076	0889- 1666
Journal of Mathematical Physics February 89, Vol. 30, No. 2	0243- 0552	1667- 1976
Optics Letters 15 January 89, Vol. 14, No. 2	0107- 0149	1977- 2019
Review of Scientific Instruments February 89, Vol. 60, No. 2	0165- 0300	2020- 2155
The Physics Teacher February 89, Vol. 27, No. 2	0067- 0128	2156- 2217

CPM 8902C	Page	Frame
Physics of Fluids A February 89, Vol. 1, No. 2	0167- 0442	0001- 0276
Physics of Fluids B February 89, Vol. 1, No. 2	0271- 0484	0277- 0490

Physical Review A 15 January 89, Vol. 39, No. 2	0475- 0924	0491- 0940
Physical Review Letters 9 January 89, Vol. 62, No. 2	0117- 0232	0941- 1056
Physical Review Letters 16 January 89, Vol. 62, No. 3	0233- 0340	1057- 1164
Physical Review D: Particles & Fields 1 January 89, Vol. 39, No. 1	0001- 0370	1165- 1534
Physical Review D: Particles & Fields 15 January 89, Vol. 39, No. 2	0371- 0700	1535- 1864
Review of Modern Physics January 89, Vol. 61, No. 1	0001- 0184	1865- 2048
Physical Review Letters 23 January 89, Vol. 62, No. 4	0341- 0484	2049- 2171

CPM 8902D	Page	Frame
Physical Review C January 89, Vol. 39, No. 1	0001- 0310	0001- 0310
Physical Review A 1 January 89, Vol. 39, No. 1	0001- 0474	0311- 0784
Journal of Chemical Physics 15 February 89, Vol. 90, No. 4	2077- 2534	0785- 1242
Journal of Materials Research January/February 89, Vol. 4, No. 1	0001- 0240	1243- 1482
Applied Optics 1 January 89, Vol. 28, No. 1	0001- 0192	1483- 1674
Applied Optics 15 January 89, Vol. 28, No. 2	0193- 0400	1675- 1882
Journal of Lightwave Technology January 89, Vol. 7, No. 1	0001- 0222	1883- 2104
Physical Review Letters 30 January 89, Vol. 62, No. 5	0485- 0608	2105- 2228

CPM 8902E	Page	Frame
Journal of Lightwave Technology February 89, Vol. 7, No. 2	0223- 0448	0001- 0226
Journal of the Optical Society of America A February 89, Vol. 6, No. 2	0169- 0352	0227- 0411
Journal of the Optical Society of America B February 89, Vol. 6, No. 2	0137- 0280	0412- 0555
Applied Physics Letters 13 February 89, Vol. 54, No. 7	0597- 0680	0556- 0639
Applied Physics Letters 20 February 89, Vol. 54, No. 8	0681- 0782	0640- 0741
Medical Physics January/February, Vol. 16, No. 1	0001- 0158	0742- 0875

Physical Review A	0925–	0900
1 February 89, Vol. 39, No. 3	1604	1579
Physical Review A	1605–	1580–
15 February 89, Vol. 39, No. 4	2276	2251

CPM 8902F	Page	Frame
Physical Review B: Condensed Matter	0001–	0001–
1 January 89, Vol. 39, No. 1	0908	0908
Physical Review B: Condensed Matter	0909–	0909–
15 January 89, Vol. 39, No. 2, Part I	1470	1470
Physical Review B: Condensed Matter	1471–	1471–
15 January 89, Vol. 39, No. 3, Part II	1986	1986
Physical Review D: Particles & Fields	1009–	1987–
15 February 89, Vol. 39, No. 4	1260	2238

CPM 8902G	Page	Frame
Physical Review B: Condensed Matter	1987–	0001–
1 February 89, Vol. 39, No. 4	2972	0986
Physical Review Letters	0609–	0987–
6 February 89, Vol. 62, No. 6	0694	1072
Physical Review C	0311–	1073–
February 89, Vol. 39, No. 2	0748	1510
Physical Review B: Condensed Matter	2973–	1511–
15 February 89, Vol. 39, No. 5, Part I	3466	2004
Optics News	0001–	2005–
February 89, Vol. 15, No. 2	0080	2084

CPM 8902X	Page	Frame
Optics & Spectroscopy	0577–	0001–
May 88, Vol. 64, No. 5	0720	0142
JETP Letters	0705–	0143–
25 June 88, Vol. 47, No. 12	0768	0206

Soviet Journal of Quantum Electronics	0955–	0207–
August 88, Vol. 18, No. 8	1058	0310
Soviet Physics Solid State	0917–	0311–
June 88, Vol. 30, No. 6	1110	0504
Soviet Physics Semiconductors	0731–	0505–
July 88, Vol. 22, No. 7	0848	0622
JETP Letters	0001–	0623–
10 July 88, Vol. 48, No. 1	0050	0672
Chinese Physics—Lasers	0399–	0673–
June 88, Vol. 15, No. 6	0478	0752
Chinese Physics—Lasers	0479–	0753–
July 88, Vol. 15, No. 7	0554	0828
Soviet Journal of Low Temperature Physics	0187–	0829–
April 88, Vol. 14, No. 4	0246	0888
Soviet Journal of Low Temperature Physics	0247–	0889–
May 88, Vol. 14, No. 5	0308	0950
Soviet Journal of Nuclear Physics	0955–	0951–
June 88, Vol. 47, No. 6	1154	1150
Soviet Journal of Nuclear Physics	0001–	1151–
July 88, Vol. 48, No. 1	0192	1342
Soviet Journal of Particles & Nuclei	0301–	1343–
July/August 88, Vol. 19, No. 4	0428	1470
Soviet Physics-Acoustics	0225–	1471–
May–June 88, Vol. 34, No. 3	0324	1570
Soviet Physics-Crystallography	0315–	1571–
May–June 88, Vol. 33, No. 3	0476	1732
Soviet Physics-Doklady	0239–	1733–
April 88, Vol. 33, No. 4	0304	1798
Soviet Physics-Doklady	0305–	1799–
May 88, Vol. 33, No. 5	0392	1886
Soviet Technical Physics Letters	0343–	1887–
May 88, Vol. 14, No. 5	0424	1968
Soviet Physics-Technical Physics	0263–	1969–
March 88, Vol. 33, No. 4	0390	2096
Soviet Physics-Technical Physics	0391–	2097–
April 88, Vol. 33, No. 5	0516	2222

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

- W. B. Lim *et al.*, Rev. Sci. Instrum., Vol. 60, No. 2 (February 1989) p. 0265 (27 pp., 1 fiche).
 E. A. Salter *et al.*, J. Chem. Phys., Vol. 90, No. 3 (1 February 1989) p. 1752 (43 pp., 1 fiche).
 L. Jorissen *et al.*, J. Chem. Phys., Vol. 90, No. 4 (15 February 1989) p. 2109 (15 pp., 1 fiche).
 T. J. Sears *et al.*, J. Chem. Phys., Vol. 90, No. 4 (15 February 1989) p. 2125 (8 pp., 1 fiche).
 L. Longa & R.-R. Trebin, Phys. Rev. A, Vol. 39, No. 4 (15 February 1989) p. 2160 (8 pp., 1 fiche).

3rd fl. GC 1.C82

Current Physics Microform

Monthly Table of Contents

MARCH
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8903A	Page	Frame
Astronomical Journal March 89, vol. 97, no. 3	0627- 0956	0001- 0330
Journal of Applied Physics 1 March 89, vol. 65, no. 5	1823- 2186	0331- 0694
Journal of Applied Physics 15 March 89, vol. 65, no. 6	2187- 2582	0695- 1090
Journal of Vacuum Science and Technology B Jan/Feb 89, vol. 7, no. 1	0001- 0140	1091- 1230
Journal of Chemical Physics March 89, vol. 90, no. 5	2535- 2840	1231- 1536
Journal of Mathematical Physics March 89, vol. 30, no. 3	0553- 0766	1573- 1750
Review of Scientific Instruments March 89, vol. 60, no. 3	0301- 0530	1751- 1980
American Journal of Physics March 89, vol. 57, no. 3	0193- 0288	1981- 2176

CPM 8903B	Page	Frame
Applied Physics Letters 27 February 89, vol. 54, no. 9	0783- 0868	0001- 0086
Journal of the Acoustical Society of America March 89, vol. 85, no. 3	0995- 1406	0087- 0498
Journal of Vacuum Science & Technology A Mar/Apr 89, vol. 7, no. 2	0125- 0564	0499- 0939
Physical Review Letters 13 February 89, vol. 62, no. 7	0695- 0844	0939- 1074
Physical Review Letters 20 February 89, vol. 62, no. 8	0845- 0980	1075- 1210
Physical Review B 15 February 89, vol. 89, no. 6-Part II	3467- 3942	1211- 1686
Physics of Fluids A March 89, vol. 1, no. 3	0443- 0624	1687- 1868
Physics of Fluids B March 89, vol. 1, no. 3	0485- 0714	1869- 2098
Applied Physics Letters 6 March 89, vol. 54, no. 10	0869- 0974	2099- 2203

CPM 8903C	Page	Frame
AIP Conference Proceedings January 89, vol. 180	0001- 0362	0001- 0362
AIP Conference Proceedings January 89, vol. 181	0001- 0488	0363- 0850

*Journal of Chemical Physics 15 March 89, vol. 90, no. 6	2841- 3412	0851- 1422
Physical Review D 1 March 89, vol. 39, no. 5	1261- 1480	1423- 1642
Physical Review D 1 February 89, vol. 39, no. 3	0701- 1008	1643- 1950
Physics Today February 89, vol. 42, no. 2	0001- 0152	1951- 2102
Physical Review Letters 27 February 89, vol. 62, no. 9	0981- 1066	2103- 2187

CPM 8903D	Page	Frame
Bulletin of the American Physical Society February 89, vol. 34, no. 2	0159- 0364	0001- 0206
Bulletin of the American Physical Society March 89, vol. 34, no. 3	0365- 1090	0207- 0932
Bulletin of the American Astronomical Society Jan-Mar 89, vol. 21, no. 1	0001- 0722	0933- 1654
Applied Optics 1 February 89, vol. 28, no. 3	0401- 0640	1655- 1894
Optics Letters 15 February 89, vol. 14, no. 4	0193- 0256	1895- 1958
Applied Optics 15 February 89, vol. 28, no. 4	0641- 0816	1959- 2134
Optics Letters 1 March 89, vol. 14, no. 5	0257- 0298	2135- 2176

CPM 8903E	Page	Frame
AIP Conference Proceedings February 1989, Vol. 182	0001- 0456	0001- 0456
AIP Conference Proceedings February 1989, Vol. 183	0001- 0446	0457- 0902
Journal of Lightwave Technology March 89, vol. 7, no. 3	0449- 0576	0903- 1030
Optics News March 89, vol. 15, no. 3	0001- 0080	1031- 1111
Journal of the Optical Society of America A March 89, vol. 6, no. 3	0353- 0480	1112- 1239
Physics Teacher March 89, vol. 27, no. 3	0129- 0224	1240- 1334
Physical Review Letters 6 March 89, vol. 62, no. 10	1067- 1214	1335- 1482
Physical Review Letters 13 March 89, vol. 62, no. 11	1215- 1326	1483- 1594

Physics Today March 89, vol. 42, no. 3	0001- 0184	1595- 1778	Soviet Physics-Semiconductors August 88, vol. 22, no. 8	0849- 0972	0483- 0606
Optics Letters 15 March 89, vol. 14, no. 6	0297- 0340	1779- 1822	Soviet Physics-Uspekhi June 88, vol. 31, no. 6	0491- 0580	0607- 0696
Applied Physics Letters 13 March 89, vol. 54, no. 11	0975- 1076	1823- 1923	Soviet Physics-Crystallography July 88, vol. 33, no. 4	0477- 0628	0697- 0848
Applied Physics Letters 20 March 89, vol. 54, no. 12	1077- 1190	1924- 2037	Soviet Physics Doklady June 88, vol. 33, no. 6	0393- 0472	0849- 0928
Applied Physics Letters 27 March 89, vol. 54, no. 13	1191- 1286	2038- 2132	Soviet Physics JETP July 88, vol. 67, no. 7	1297- 1516	0929- 1148
			Soviet Journal of Plasma Physics July 88, vol. 14, no. 7	0453- 0526	1149- 1222
CPM 8903X	Page	Frame	Soviet Journal of Plasma Physics August 88, vol. 14, no. 8	0527- 0600	1223- 1296
JETP Letters 25 July 1988, vol. 48, no. 2	0051- 0120	0001- 0070	Soviet Journal-Solid State July 88, vol. 30, no. 7	1111- 1320	1297- 1506
JETP Letters 10 August 88, vol. 48, no. 3	0121- 0190	0071- 0140	Soviet Physics-Technical Physics May 88, vol. 33, no. 5	0517- 0614	1507- 1604
JETP Letters 25 August 88, vol. 48, no. 4	0191- 0250	0141- 0200	Optics & Spectroscopy June 88, vol. 64, no. 6	0721- 0824	1605- 1708
Soviet Physics-Uspekhi April 88, vol. 31, no. 4	0289- 0384	0201- 0296	Soviet Journal of Nuclear Physics August 88, vol. 48, no. 2	0193- 0388	1709- 1904
Soviet Physics-Uspekhi May 88, vol. 31, no. 5	0385- 0490	0297- 0402	Soviet Journal of Quantum Electronics September 88, vol. 18, no. 9	1059- 1210	1905- 2056
Soviet Technical Physics Letters June 88, vol. 14, no. 6	0425- 0504	0403- 0482	Chinese Physics—Lasers August 88, vol. 15, no. 8	0555- 0638	2057- 2140

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

C. V. V. Prasad & S. Paddi Reddy, J. Chem. Phys., Vol. 90, No. 6 (15 March 1989) p. 3010 (14 pp., 1 fiche).

Nabil M. El-Hady, Phys. Fluids A, Vol. 1, No. 3 (March 1989) p. 0549 (54 pp., 1 fiche) [Report NOR-59-383/1964 by G. S. Raetz].

Nabil M. El-Hady, Phys. Fluids A, Vol. 1, No. 3 (March 1989) p. 0549 (33 pp., 1 fiche) [Lockheed-Georgia Report LG 77ERO 152/1977 by S. Lekoudis].

302086-2 CPM 1.032

Current Physics Microform

Monthly Table of Contents

APRIL
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8904A	Page	Frame
American Journal of Physics April 89, vol. 57, no. 4	0289- 0384	0001- 0096
Astronomical Journal April 89, vol. 97, no. 4	0957- 1278	0097- 0418
Journal of Applied Physics 1 April 89, vol. 65, no. 7	2583- 2882	0419- 0718
Journal of Chemical Physics 1 April 89, vol. 90, no. 7	3413- 3892	0719- 1198
Journal of Mathematical Physics April 89, vol. 30, no. 4	0767- 0956	1199- 1388
Journal of Physical & Chemical Reference Data Jan-Mar 89, vol. 18, no. 1	0001- 0564	1389- 1953
Applied Optics 1 March 89, vol. 28, no. 5	0817- 1032	1954- 2169
Optics Letters 1 April 89, vol. 14, no. 7	0341- 0380	2170- 2208

CPM 8904B	Page	Frame
Journal of Applied Physics 15 April 89, vol. 65, no. 8	2883- 3310	0001- 0428
Journal of the Optical Society of America-B March 89, vol. 6, no. 3	0281- 0528	0429- 0676
*Physical Review A 1 March 89, vol. 39, no. 5	2277- 2788	0677- 1188
Physics of Fluids A April 89, vol. 1, no. 4	0625- 0774	1189- 1338
Physics of Fluids B April 89, vol. 1, no. 4	0715- 0976	1339- 1600
Physical Review A 15 March 89, vol. 39, no. 6	2789- 3222	1601- 2034
Physical Review Letters 20 March 89, vol. 62, no. 12	1327- 1419	2035- 2127
Applied Physics Letters 3 April 89, vol. 54, no. 14	1287- 1382	2128- 2223

CPM 8904C	Page	Frame
Review of Scientific Instruments April 89, vol. 60, no. 4	0531- 0824	0001- 0294
Physical Review B 1 March 89, vol. 39, no. 7	3943- 4852	0295- 1204

Physical Review B 15 March 89, vol. 39, no. 8-Part I	4853- 5590	1205- 1942
Journal of Materials Research March/April 89, vol. 4, no. 2	0241- 0466	1943- 2168
The Physics Teacher April 89, vol. 27, no. 4	0320- 0227	2169- 2262

CPM 8904D	Page	Frame
Physical Review C March 89, vol. 39, no. 3	0749- 1214	0001- 0466
Physical Review D 15 March 89, vol. 39, no. 6	1481- 1810	0467- 0796
Journal of the Acoustical Society of America April 89, vol. 85, no. 4	1407- 1818	0797- 1208
Journal of Chemical Physics 15 April 89, vol. 90, no. 8	3893- 4644	1209- 1960
Physical Review Letters 27 March 89, vol. 62, no. 13	1421- 1577	1961- 2116
Applied Physics Letters 10 April 89, vol. 54, no. 15	1383- 1488	2117- 2222

CPM 8904E	Page	Frame
Physical Review B 15 March 89, vol. 39, no. 9-Part II	5591- 6304	0001- 0714
Physical Review D 1 April 89, vol. 39, no. 7	1811- 2088	0715- 0992
Review of Modern Physics April 89, vol. 61, no. 2	0185- 0526	0993- 1334
Journal of Vacuum Science & Technology B March 89, vol. 7, no. 2	0125- 0428	1335- 1638
Medical Physics March/April 89, vol. 16, no. 2	0159- 0318	1639- 1798
Physical Review Letters 3 April 89, vol. 62, no. 14	1579- 1702	1799- 1922
Journal of the Optical Society A April 89, vol. 6, no. 4	0481- 0616	1923- 2058
Journal of Lightwave Technology April 89, vol. 7, no. 4	0577- 0752	2059- 2234

CPM 8904X	Page	Frame		
Soviet Physics-JETP	1517-	0001-	Soviet Journal of Low Temperature Physics	0369- 1133-
August 88, vol. 67, no. 8	1734	0218	July 88, vol. 14, no. 7	0432 1196
Chinese Physics—Lasers	0639-	0219-	Soviet Journal of Quantum Electronics	1211- 1197-
September 88, vol. 15, no. 9	0714	0294	October 88, vol. 18, no. 10	1358 1339
JETP Letters	0251-	0295-	Soviet Physics Acoustics	0325- 1340-
10 September 88, vol. 48, no. 5	0326	0370	July/August 88, vol. 34, no. 4	0446 1461
Soviet Journal of Low Temperature Physics	0309-	0371-	Soviet Journal of Optical Technology	0389- 1462-
June 88, vol. 14, no. 6	0368	0430	July 88, vol. 55, no. 7	0478 1551
Soviet Astronomy	0231-	0431-	Soviet Physics-Doklady	0473- 1552-
May/June 88, vol. 32, no. 3	0350	0550	July 88, vol. 33, no. 7	0550 1629
Soviet Astronomy Letters	0247	0551-	Soviet Journal of Plasma Physics	0601- 1630-
July/August 88, vol. 14, no. 4	0326	0630	September 88, vol. 14, no. 9	0674 1703
Soviet Physics-Semiconductors	0973-	0631-	Soviet Physics-Semiconductors	1093- 1704-
September 88, vol. 22, no. 9	1092	0750	October 88, vol. 22, no. 10	1208 1819
Soviet Technical Physics Letters	0505-	0751-	Soviet Physics-Solid State	1303- 1820-
July 88, vol. 14, no. 7	0586	0832	August 88, vol. 30, no. 8	1478 1995
Chinese Physics	0001-	0833-	Soviet Physics-Solid State	1479- 1996-
Jan/Mar 89, vol. 9, no. 1	0300	1132	September 88, vol. 30, no. 9	1662 2179
			JETP Letters	0327- 2180-
			25 September 88, vol. 48, no. 6	0398 2251

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

F. Neugebauer *et al.*, Astron. J., Vol. 97, No. 4 (April 1989) p. 0957 (25 pp., 1 fiche).

W. T. Carnall *et al.*, J. Chem. Phys., Vol. 90, No. 7 (1 April 1989) p. 3443 (63 pp., 1 fiche).

V. L. Jacobs *et al.*, Phys. Rev. A, Vol. 39, No. 5 (1 March 1989) p. 2411 (12 pp., 1 fiche).

J. H. Rogers *et al.*, Phys. Fluids B, Vol. 1, No. 4 (April 1989) p. 0741 (42 pp., 1 fiche) [LLNL 1974 Report UCRL-7581 by G. Zimmerman].

M. L. Theobald *et al.*, Phys. Fluids B, Vol. 1, No. 4 (April 1989) p. 0741 (200 pp., 2 fiche) [NRL-1984 MHD Instabilities...by W. M. Manheimer & C. Lashmore-Davies].

J. Brynolf *et al.*, Phys. Fluids B, Vol. 1, No. 4 (April 1989) p. 0949 (21 pp., 1 fiche) [RIT 1985 Report No. TRITA-PFU 85-06 by G. Hellblom].

J. V. Coe *et al.*, J. Chem. Phys., Vol. 90, No. 8 (15 April 1989) p. 3893 (6 pp., 1 fiche).

V. H. Grassian *et al.*, J. Chem. Phys., Vol. 90, No. 8 (15 April 1989) p. 3994 (2 pp., 1 fiche).

Current Physics Microform

Monthly Table of Contents

MAY
JUN 1 3 1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8905A	Page	Frame
Journal of Applied Physics 1 May 89, vol. 65 no. 9	3311- 3746	0001- 0436
*Physical Review B 1 April 89, vol. 39 no. 10 (Part A)	6305- 6856	0437- 0988
Physical Review B 1 April 89, vol. 39 no. 10 (Part B)	6857- 7404	0989- 1536
Physical Review A 1 April 89, vol. 39 no. 7	3223- 3760	1537- 2074
Physical Review Letters 10 April 89, vol. 62 no. 15	1703- 1806	2075- 2178

CPM 8905B	Page	Frame
AIP CONFERENCE PROCEEDINGS April 89, No. 184, Vol. One	0001- 1164	0001- 1164
Journal of the Optical Society of America B April 89, vol. 6, no. 4	0529- 0864	1165- 1500
Bulletin of the American Physical Society April 89, vol. 34, no. 4	1091- 1336	1501- 1746
Optical News April 89, vol. 15, no. 4	0001- 0080	1747- 1826
Applied Physics Letters 17 April 89, vol. 54, no. 16	1489- 1606	1827- 1944
Computers in Physics May/June 89, vol. 3 no. 3	0001- 0096	1945- 2040
Applied Physics Letters 24 April 89 vol. 54, no. 17	1607- 1714	2041- 2148
Optics Letters 15 April 89, vol. 14, no. 8	0381- 0416	2149- 2184

CPM 8905C	Page	Frame
AIR CONFERENCE PROCEEDINGS April 89, No. 184, Vol. Two	1137- 2338	0001- 1202
Applied Optics B 15 April 89, vol. 28, no. 6	1033- 1280	1203- 1450
*Physical Review C April 89, vol 39, no. 4	1215- 1678	1451- 1914
The Astronomical Journal May 89, vol. 97, no. 5	1279- 1538	1915- 2174

CPM 8905D	Page	Frame
American Journal of Physics May 89, vol. 57, no. 5	0385- 0480	0001- 0096
The Journal of Chemical Physics 1 May 89, vol. 90, no. 9	4645- 5220	0097- 0672
Journal of Mathematical Physics May 89, vol. 30, no. 5	0957- 1194	0673- 0910
Physical Review D 15 April 89, vol. 65, no. 10	2089- 2456	0911- 1278
Journal of Applied Physics 15 May 89, vol. 65, no. 10	3747- 4094	1279- 1626
Physics of Fluids A May 89, vol. 1, no. 5	0775- 0908	1627- 1760
Physics of Fluids B May 89, vol. 1, no. 5	0977- 1150	1761- 1936
Physical Review Letters 17 April 89, vol 62, no. 16	1807- 1927	1937- 2057
Physics Today April 89, vol. 42, no. 4	0001- 0128	2058- 2185

CPM 8905E	Page	Frame
Physical Review B (Part 1) 15 April 89, vol. 39, no. 11	7405- 8090	0001- 0686
Physical Review B (Part 2) 15 April 89, vol. 39, no. 12	8091- 8806	0687- 1402
Physical Review A 15 April 89, vol. 39, no. 8	3761- 4354	1403- 1996
Bulletin of the American Physical Society May 89, vol. 34, no. 5	1337- 1462	1997- 2122
Applied Physics Letter 1 May 89, vol. 54, no. 18	1713- 1826	2123- 2236

CPM 8905X	Page	Frame
Optics & Spectroscopy July 88, vol. 65, no. 1	0001- 0148	0001- 0148
Soviet Physics Uspekhi July 88, vol. 31, no. 7	0581- 0688	0149- 0256
Soviet Journal of Low Temperature Physics May 88, vol. 14, no. 5	0247- 0308	0257- 0318
Soviet Journal of Nuclear Physics September 88, vol. 48, no. 3	0389- 0580	0319- 0510

Soviet Journal of Nuclear Physics October 88, vol. 48, no. 4	0581- 0772	0511- 0702	Soviet Technical Physics Letters August 88, vol. 14, no. 8	0587- 0668	1489- 1570
Soviet Journal of Optical Technology August 88, vol. 55, no. 8	0449- 0514	0703- 0768	Chinese Physics-Lasers October 88, vol. 15, no. 10	0715- 0794	1571- 1650
Soviet Journal of Low Temperature Physics August 88, vol. 14, no. 8	0433- 0492	0769- 0828	Soviet Journal of Particle & Nuclei September 88, vol. 19, no. 5	0429- 0528	1651- 1750
Soviet Journal of Quantum Electronics November 88, vol. 18, no. 11	1359- 1508	0829- 0978	JETP Letters 10 October 88, vol. 48, no. 7	0399- 0448	1751- 1800
Soviet Physics-Uspenki August 88, vol. 14, no. 8	0689- 0784	0979- 1074	JETP Letters 25 October 88, vol. 48, no. 8	0449- 0506	1801- 1858
Soviet Physics-JETP September 88, vol. 67, no. 9	1735- 1952	1075- 1292	Chinese Physics-Lasers November 88, vol. 15, no. 11	0795- 0868	1859- 1932
Soviet Journal of Plasma Physics October 88, vol. 14, no. 10	0675- 0748	1293- 1366	Soviet Journal of Plasma Physics November 88, vol. 14, no. 11	0749- 0824	1933- 2008
Soviet Physics-Semiconductors November 88, vol. 22, no. 11	1209- 1330	1367- 1488	Soviet Physics Technical Physics June 88, vol. 33, no. 6	0615- 0738	2009- 2132

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

I. S. Poirrot *et al.*, Phys. Rev. B, Vol. 39, No. 10-A (1 April 1989) p. 6388 (4 pp., 1 fiche).

J. J. Kelly *et al.*, Phys. Rev. C, Vol. 39, No 4 (1 April 1989) p. 1222 (15 pp., 1 fiche).

320 Q2 1.282 (Paper Copy)

Current Physics Microform

Monthly Table of Contents

**JUNE
1989**

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8906A	Page	Frame
Applied Physics Letters 8 May 89, vol. 54 no. 19	1827- 1946	0001- 0114
Applied Optics 1 April 89, vol. 28, no. 7	1281- 1440	0115- 0274
Applied Optics 15 April 89, vol. 28 no. 8	1441- 1592	0275- 0390
Journal of the Acoustical Society of America May 89, vol. 85 no. 5	1819- 2254	0391- 0826
Journal of the Acoustical Society of America 15 April 89, vol. 85 Suppl. 1	S001- S176	0827- 1002
Journal of Applied Physics 1 June 89, vol. 65, no. 11	4095- 4474	1003- 1382
Journal of the Optical Society of America A May 89, vol. 6, no. 5	0617- 0736	1383- 1502
Optics Letters 1 May 89, vol. 14, no. 9	0417- 0474	1503- 1560
Physical Review Letters 24 April 89, vol. 62, no. 17	1929- 2063	1561- 1695
*Review of Scientific Instruments May 89, vol. 60, no. 5	0825- 0984	1696- 1855
Physical Review Letters 1 May 89, vol. 62, no. 18	2065- 2200	1856- 1990
Journal of Lightwave Technology May 89, vol. 7, no. 5	0753- 0878	1991- 2116
Physics Teacher May 89, vol. 27, no. 5	0323- 0416	2117- 2210

CPM 8906B	Page	Frame
AIP Conference Proceedings April 89, No. 185	0001- 0760	0001- 0760
Physical Review D 1 May 89, vol. 39, no. 9	2457- 2824	0761- 1128
Applied Optics 1 May 89, vol. 28, no. 9	1593- 1736	1129- 1272
Applied Physics Letters 15 May 89, vol. 54, no. 20	1947- 2052	1273- 1378
Physical Review Letters 8 May 89, vol. 62, no. 19	2201- 2336	1379- 1514
Physical Review B 15 May 89, vol. 39, no. 14, PART I	9793- 10502	1515- 2224

CPM 8906C	Page	Frame
*Physical Review B 1 May 89, vol. 39, no. 13	8807- 9792	0001- 0986
Physical Review A 1 May 89, vol. 39, no. 9	4355- 4934	0987- 1566
Physical Review C May 89, vol. 39, no. 5	1679- 2112	1567- 2000
American Journal of Physics June 89, vol. 57, no. 6	0481- 0576	2001- 2096
Applied Physics Letters 22 May 89, vol. 54, no. 21	2053- 2170	2097- 2213

CPM 8906D	Page	Frame
*Journal of Chemical Physics 15 May 89, vol. 90, no. 10	5221- 5900	0001- 0680
*Journal of Chemical Physics 1 June 89, vol. 90, no. 11	5901- 6820	0681- 1600
Physical Review D 15 May 89, vol. 39, no. 10	2825- 3206	1601- 1982
Journal of Mathematical Physics June 89, vol. 30, no. 6	1195- 1400	1983- 2188
Optics News May 89, vol. 15, no. 5	0001- 0064	2189- 2252

CPM 8906E	Page	Frame
Journal of Vacuum Science & Technology A May/June 89, vol. 7, no. 3, Part I	0565- 1528	0001- 0964
Journal of Vacuum Science & Technology A May/June 89, vol. 7, no. 3, Part II	1529- 2524	0965- 1959
Journal of the Optical Society of America B May 89, vol. 6, no. 5	8905- 1096	1960- 2191
Optics Letters 15 May 89, vol. 14, no. 10	0473- 0528	2192- 2256

CPM 8906F	Page	Frame
*Astronomical Journal June 89, vol. 97, no. 6	1539- 1862	0001- 0324
Journal of Applied Physics 15 June 89, vol. 65, no. 12	4475- 5380	0325- 1230

Physics of Fluids A June 89, vol. 1, no. 6	0909- 1090	1231- 1412	Soviet Astronomy July-Aug 88, vol. 32, no. 4	0351- 0468	0591- 0708
*Physics of Fluids B June 89, vol. 1, no. 6	1151- 1354	1413- 1616	Soviet Physics-Crystallography Sept-Oct 88, vol. 33, no. 5	0629- 0794	0709- 0874
Physics Today May 89, vol. 42, no. 5	0001- 0144	1617- 1760	Soviet Physics-Doklady August 88, vol. 33, no. 8	0551- 0640	0875- 0964
Physics Review Letters 15 May 89, vol. 62, no. 20	2337- 2424	1761- 1848	Soviet Physics-Doklady September 88, vol. 33, no. 9	0641- 0708	0965- 1032
Review of Scientific Instruments June 89, vol. 60, no. 6	0985- 1222	1849- 2086	Soviet Physics Solid State October 88, vol. 30, no. 10	1663- 1840	1033- 1210
Applied Physics Letters 29 May 89, vol. 54, no. 22	2171- 2286	2087- 2201	Soviet Physics-Technical Physics July 88, vol. 33, no. 7	0739- 0872	1211- 1344
			Soviet Technical Physics Letters September 88, vol. 14, no. 9	0669- 0750	1345- 1426
			Soviet Physics-Uspekhi September 88, vol. 31, no. 9	0785- 0886	1427- 1528
			JETP Letters 25 December 88, vol. 48, no. 12	0689- 0832	1529- 1672
JETP Letters 10 November 89, vol. 48, no. 9	0507- 0554	0001- 0048	Soviet Astronomy Letters Sept-Oct 88, vol. 14, no. 5	0327- 0408	1673- 1754
JETP Letters 25 November 89, vol. 48, no. 10	0555- 0620	0049- 0114	Soviet Journal of Low Temperature Physics September 88, vol. 14, no. 9	0493- 0552	1755- 1814
JETP Letters 10 December 89, vol. 48, no. 11	0621- 0688	0115- 0182	Soviet Journal of Quantum Electronics December 88, vol. 18, no. 12	1509- 1712	1815- 2018
Soviet Journal of Optical Technology September 88, vol. 55, no. 9	0515- 0580	0183- 0248	Soviet Physics-Uspekhi October 88, vol. 31, no. 10	0887- 0964	2019- 2096
Soviet Physics-Jetp October 88, vol. 67, no. 10	1955- 2176	0249- 0470	Soviet Physics-Acoustics September 88, vol. 34, no. 5	0447- 0552	2097- 2202
Soviet Astronomy May-June 88, vol. 32, no. 3	0231- 0350	0471- 0590	Soviet Physics-Doklady October 88, vol. 33, no. 10	0709- 0778	2203- 2271

CPM 8906X

Page

Frame

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

M. C. Marconi *et al.*, Rev. Sci. Instrum., Vol. 60, No. 5 (May 1989) p. 0966 (2 pp., 1 fiche).

U. Narger & D. Balzarini, Phys. Rev. B., Vol. 39, No. 13 (1 May 1989) p. 9330 (21 pp., 1 fiche).

E. Sekreta *et al.*, J. Chem. Phys. Vol. 90, No. 10 (15 May 1989) p. 5349 (9 pp., 1 fiche).

F. King & P. Dressel, J. Chem. Phys. Vol. 90, No. 11 (1 June 1989) p. 6449 (9 pp., 1 fiche).

Hong Suh Park & Kwan-Yu Chen, Astron. J., Vol. 97, No. 6 (June 1989) p. 1807 (18 pp., 1 fiche).

F. Helton & J. Greene, Phys. Fluids B., Vol. 1, No. 6 (June 1989) p. 1205 (27 pp., 1 fiche) [DOE Report, 1981, GA-A16243 by R. Moore].

P. Similon & J. Wurtele, Phys. Fluids B., Vol. 1, No. 6 (June 1989) p. 1307 (18 pp., 1 fiche) [MIT Memo No. 101, Aug. 1980 by H. Haus].

583D MET Q6 1. C 82
Paper Copy

Current Physics Microform

Monthly Table of Contents

**JULY
1989**

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8907A	Page	Frame
AIP Conference Proceedings May 1989, No. 186	0001- 0520	0001- 0520
AIP Conference Proceedings May 1989, No. 187, Vol. One & Vol. Two	0001- 1666	0521- 2185

CPM 8907B	Page	Frame
Physical Review A 15 May 89, vol. 39, no. 10	4936- 5482	0001- 0548
Applied Physics Letters 5 June 89, vol. 54, no. 23	2287- 2388	0549- 0650
Journal of the Acoustical Society of America June 89, vol. 85, no. 6	2255- 2810	0651- 1206
*Journal of Chemical Physics 15 June 89, vol. 90, no. 12	6821- 7724	1207- 2110
Applied Physics Letters 12 June 89, vol. 54, no. 24	2389- 2502	2111- 2224

CPM 8907C	Page	Frame
Journal of Vacuum Society B May/June 89, vol. 7, no. 3	0429- 0588	0001- 0160
Physical Review B 15 May 89, vol. 39, no. 15, Part II	10503- 11232	0161- 0890
Physical Review Letters 22 May 89, vol. 62, no. 21	2425- 2570	0891- 1036
Physical Review Letters 29 May 89, vol. 62, no. 22	2571- 2644	1037- 1110
Medical Physics May-June 89, vol. 16, no. 3	0319- 0520	1111- 1312
Applied Optics 15 May 89, vol. 28, no. 10	1737- 1952	1313- 1528
Optics Letters 1 June 89, vol. 14, no. 11	0539- 0600	1529- 1590
Physical Review A 1 June 89, vol. 39, no. 1	5483- 6108	1591- 2216

CPM 8907D	Page	Frame
Journal of Applied Physics 1 July 89, vol. 66, no. 1	0001- 0474	0001- 0474
Physical Review B 1 June 89, vol. 39, no. 16-Part A	11233- 11832	0475- 1074
*Physical Review B 1 June 89, vol. 39, no. 16-Part B	11833- 12448	1075- 1690
Physical Review D 1 June 89, vol. 39, no. 11	3207- 3542	1691- 2026
Physics Today 1 June 89, vol. 42, no. 6	0001- 0136	2027- 2162
Optics News June 89, vol. 15, no. 6	0001- 0048	2163- 2210

CPM 8907E	Page	Frame
Journal of Material Research May-June 89, vol. 4, no. 3	0467- 0744	0001- 0278
Journal of the Optical Society of America A June 89, vol. 6, no. 6	0737- 0976	0279- 0518
Journal of Lightwave Technology June 89, vol. 7, no. 6	0881- 1008	0519- 0645
Bulletin of the American Astronomical Society June 89, vol. 21, no. 2	0723- 0872	0646- 0795
Physical Review Letters 5 June 89, vol. 62, no. 23	2645- 2767	0796- 0917
American Journal of Physics July 89, vol. 57, no. 7	0577- 0671	0918- 1013
Applied Physics Letters 19 June 89, vol. 54, no. 25	2503- 2618	1014- 1129
Applied Optics 1 June 89, vol. 28, no. 11	1953- 2176	1130- 1353
Journal of the Optical Society of America B June 89, vol. 6, no. 6	1097- 1272	1354- 1529
Optics Letters 15 June 89, vol. 14, no. 12	0601- 0655	1530- 1584
Physical Review Letters 12 June 89, vol. 62, no. 24	2769- 2888	1585- 1704
Optics Letters 1 July 89, vol. 14, no. 13	0657- 0712	1705- 1760
Physical Review Letters 19 June 89, vol. 62, no. 25	2889- 3014	1761- 1886
Applied Optics 15 June 89, vol. 28, no. 12	2177- 2440	1887- 2149
Optics Letters 15 July 89, vol. 14, no. 14	0713- 0766	2150- 2203

CPM 8907F	Page	Frame
Journal of Chemical Physics 1 July 89, vol. 91, no. 1	0001– 0626	0001– 0626
Journal of Mathematical Physics July 89, vol. 30, no. 7	1401– 1654	0627– 0880
Astronomical Journal July 89, vol. 98, no. 1	0001– 0350	0881– 1230
*Physical Review A 15 June 89, vol. 39, no. 12	6109– 6652	1231– 1772
Physical Review C June 89, vol. 39, no. 6	2113– 2498	1773– 2158

CPM 8907G	Page	Frame
Journal of Physical and Chemical Reference Data Apr-Jun 89, vol. 18, no. 2	0565– 1110	0001– 0546
Physical Review D 1 June 89, vol. 39, no. 11	3207– 3542	0547– 0882
Physics of Fluids A: Fluid Dynamics July 89, vol. 1, no. 7	1091– 1304	0883– 01096
Physics of Fluids B: Plasma Physics July 89, vol. 1, no. 7	1355– 1548	1097– 1290
Physical Review B 15 June 89, vol. 39, no. 17, Part 1	12449– 13052	1291– 1893
Applied Physics Letters 26 June 89, vol. 54, no. 26	2619– 2742	1894– 2017
Applied Physics Letters 03 July 89, vol. 55, no. 1	0001– 0090	2018– 2108
Applied Physics Letters 10 July 89, vol. 55, no. 2	0091– 0208	2109– 2226

CPM 8907X	Page	Frame
Soviet Physics JETP November 88, vol. 67, no. 11	2177– 2392	0001– 0216
Soviet Physics Solid State November 88, vol. 30, no. 11	1841– 2028	0217– 0404
Soviet Physics-Technical Physics August 88, vol. 33, no. 8	0873– 0994	0405– 0526
JETP Letters 10 January 89, vol. 49, no. 1	0001– 0076	0527– 0603
Soviet Astronomy September 88, vol. 32, no. 5	0469– 0586	0604– 0721
Soviet Journal of Quantum Electronics January 89, vol. 19, no. 1	0001– 0118	0722– 0840
Soviet Physics-Uspekhi November 88, vol. 31, no. 11	0965– 1042	0841– 0918
Soviet Journal of Nuclear Physics November 88, vol. 48, no. 5	0773– 0968	0919– 1114
Soviet Physics-JETP December 88, vol. 67, no. 12	2393– 2634	1115– 1356
Soviet Physics-JETP January 89, vol. 68, no. 1	0001– 0216	1357– 1572
Soviet Journal of Particles & Nuclei Nov-Dec 88, vol. 19, no. 6	0529– 0644	1573– 1688
Soviet Physics Uspekhi December 88, vol. 31, no. 12	1043– 1100	1689– 1746
Soviet Journal of Nuclear Physics December 88, vol. 48, no. 6	0969– 1216	1747– 1994
Optics & Spectroscopy August 88, vol. 65, no. 2	0149– 0300	1995– 2146
Soviet Journal of Optical Technology October 88, vol. 55, no. 10	0581– 0644	2147– 2210
JETP Letters 25 January 89, vol. 49, no. 2	0077– 0144	2211– 2278

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

Yen-chu Hsu *et al.*, J. Chem. Phys., Vol. 90, No. 12 (15 June 1989) p. 6852 (8 pp., 1 fiche).

X. Yang and A. M. Wodtke, J. Chem. Phys. Vol. 90, No. 12 (15 June 1989) p. 7114 (6 pp., 1 fiche).

U. Narger *et al.*, Phys. Rev. B., Vol. 39, No. 16-B (1 June 1989) p. 11914 (20 pp., 1 fiche).

D. I. Sverdlik & G. W. Koepple, J. Chem. Phys. Vol. 91, No. 1 (1 July 1989) p. 0250 (13 pp., 1 fiche).

A. Macias *et al.*, J. Chem. Phys. Vol. 91, No. 1 (1 July 1989) p. 0376 (8 pp., 1 fiche).

M. C. Bellissent-Funel *et al.*, Phys. Rev. A., Vol. 39, No. 12 (15 June 1989) p. 6310 (6 pp., 1 fiche).

30540 058F QCL 1.082
(Paper Copy)

Current Physics Microform

Monthly Table of Contents

AUGUST
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8908A	Page	Frame
Physical Review B 15 June 89, vol. 39, no. 17, Part I	12449 13052	0001- 0604
Physical Review B 15 June 89, vol. 39, no. 18, Part II	13053 13624	0605- 1176
Physical Review D 15 June 89, vol. 39, no. 12	3543 3826	1177- 1460
Physical Review Letters 26 June 89, vol. 62, no. 26	3015 3151	1461- 1597
Journal of the Optical Society of America A July 89, vol. 6, no. 7	0977 1136	1598- 1757
Applied Physics Letters 17 July 89, vol. 55, no. 3	0209 0324	1758- 1873
Journal of the Optical Society of America B July 89, vol. 6, no. 7	1273 1432	1874- 2033
Applied Physics Letters 24 July 89, vol. 55, no. 4	0325 0414	2034- 2123
Computers in Physics Jul/Aug 89, vol. 3, no. 4	0001 0112	2124- 2235

CPM 8908B	Page	Frame
Journal of Applied Physics 15 July 89, vol. 66, no. 2	0475- 1012	0001- 0538
The Journal of the Acoustical Society of America July 89, vol. 86, no. 1	0001- 0462	0539- 1000
*The Journal of Chemical Physics 15 July 89, vol. 91, no. 2	0627- 1388	1001- 1762
Journal of Vacuum Society & Technology A July/August 89, vol. 7, no. 4	2525- 2930	1763- 2167
Optics News July 89, vol. 15, no. 7	0001- 0064	2168- 2232

CPM 8908C	Page	Frame
Physical Review A 1 July 89, vol. 40, no. 1	0001- 0514	0001- 0514
Physical Review C July 89, vol. 40, no. 1	0001- 0474	0515- 0988
Review of Modern Physics July 89, vol. 61, no. 3	0527- 0762	0989- 1224
Physical Review B 15 July 89, vol. 40, no. 2-Part I	0891- 1442-	1225- 1776-

Physical Review Letters 3 July 89, vol. 63, no. 1	0001- 0104	1777- 1880
Physical Review D 1 July 89, vol. 40, no. 1	0001- 0270	1881- 2151

CPM 8908D	Page	Frame
Journal of Applied Physics 1 August 89, vol. 66, no. 3	1013- 1512	0001- 0500
American Journal of Physics August 89, vol. 57, no. 8	0673- 0768	0501- 0596
Astronomical Journal August 89, vol. 98, no. 2	0351- 0754	0597- 0997
*The Journal of Chemical Physics 1 August 89, vol. 91, no. 3	1389- 1952	0998- 1561
Physical Review A 15 July 89, vol. 40, no. 2	0515- 1152	1562- 2199

CPM 8908E	Page	Frame
Applied Optics 1 July 89, vol. 28, no. 13	2441- 2680	0001- 0240
Journal of Mathematical Physics August 89, vol. 30, no. 8	1655- 1956	0241- 0542
Physical Review B 1 July 89, vol. 40, no. 1	0001- 0890	0543- 1432
Applied Physics Letters Jan-Jun, vol. 54 Index	2743- 2915	1433- 1605
Journal of the Acoustical Society of America July 89, vol. 85, Suppl. 2, Summer (RCT)	R001- R298	1606- 1904
Physics Today July 89, vol. 42, no. 7	0001- 0120-	1905- 2024-
Applied Physics Letters 31 July 89, vol. 55, no. 5	0415- 0518	2025- 2127

CPM 8908F	Page	Frame
Review of Scientific Instruments July 89, vol. 60, no. 7, Part I	1223- 1372	0001- 0150
Review of Scientific Instruments July 89, vol. 60, no. 7, Part IIA 3rd Int. Conf. Synchrotron Radiation Instrumentation	1373- 1994	0151- 0772
Review of Scientific Instruments July 89, vol. 60, no. 7, Part IIB, SRI	1995- 2570	0773- 1348
Physics Review D 15 July 89, vol. 40, no. 2	0271- 0692	1349- 1770

SEP 19 1989

Bulletin of the American Physical Society June 89, vol. 34, no. 6	1463- 1616	1771- 1924	Soviet Physics Solid State December 88, vol. 30, no. 12	2029- 2244	0533- 0748
Bulletin of the American Physical Society July/August 89, vol. 34, no. 7	1617- 1780	1925- 2088	Soviet Physics Semiconductors December 88, vol. 22, no. 12	1331- 1492	0749- 0910
Journal of Lightwave Technology July 89, vol. 7, no. 7	1009- 1136	2089- 2216	Chinese Physics April 89, vol. 9, no. 2	0301- 0610	0911- 1220
			JETP Letters 10 March 89, vol. 49, no. 5	0273- 0344	1221- 1292
			Soviet Journal of Nuclear Physics January 89, vol. 49, no. 1	0001- 0196	1293- 1488
			Soviet Journal of Optical Technology December 88, vol. 55, no. 12	0709- 0796	1489- 1576
			Soviet Journal of Optical Technology January 89, vol. 56, no. 1	0001- 0062	1577- 1638
			Soviet Journal of Quantum Electronics February 89, vol. 19, no. 2	0119- 0270	1639- 1790
			Soviet Journal of Particles & Nuclei Jan-Feb 89, vol. 20, no. 1	0001- 0108	1791- 1898
			Soviet Physics-Uspekhi January 89, vol. 32, no. 1	0001- 0100	1899- 1998
			Soviet Astronomy Letters Nov-Dec 1988, vol. 14, no. 6	0409- 0504	1999- 2094
			Optics & Spectroscopy October 88, vol. 65, no. 4	0449- 0584	2095- 2230

CPM 8908X	Page	Frame
Optics & Spectroscopy September 88, vol. 65, no. 3	0301- 0448	0001- 0148
Chinese Physics-Lasers December 88, vol. 15, no. 12	0869- 0962	0149- 0242
Soviet Journal of Optical Technology November 88, vol. 55, no. 11	0645- 0708	0243- 0306
JETP Letters 10 February 89, vol. 49, no. 3	0145- 0208	0307- 0370
JETP Letters 25 February 89, vol. 49, no. 4	0209- 0272	0371- 0434
Soviet Journal of Plasma Physics December 88, vol. 14, no. 12	0825- 0922	0435- 0532

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

F. J. Northrup & Trevor J. Sears, J. Chem. Phys., Vol. 91, No. 2 (15 July 1989) p. 0762 (11 pp., 1 fiche).
J.-M. Flaud *et al.*, J. Chem. Phys. Vol. 91, No. 3 (1 August 1989) p. 1504 (18 pp., 1 fiche).

Current Physics Microform

Monthly Table of Contents

SEPTEMBER
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8909A	Page	Frame
Journal of Applied Physics 15 August 89, vol. 66, no. 4	1513- 1900	0001- 0388
Journal of the Acoustical Society of America August 89, vol. 86, no. 2	0463- 0874	0389- 0800
Medical Physics July/August 89, vol. 16, no. 4	0521- 0686	0801- 0966
Physics of Fluids A August 89, vol. 1, no. 8	1305- 1438	0967- 1099
Physics of Fluids B August 89, vol. 1, no. 8	1561- 1766	1100- 1305
Applied Physics Letters 7 August 89, vol. 55, no. 6	0519- 0606	1306- 1393
Applied Optics 15 July 89, vol. 28, no. 14	2681- 2974	1394- 1687
Applied Optics 1 August 89, vol. 28, no. 15	2975- 3254	1688- 1967
Optics Letters 1 August 89, vol. 14, no. 15	0767- 0834	1968- 2035
Applied Physics Letters 14 August 89, vol. 55, no. 7	0607- 0710	2036- 2139
Applied Physics Letters 21 August 89, vol. 55, no. 8	0711- 0812	2140- 2241

CPM 8909B	Page	Frame
Physical Review Letters 10 July 89, vol. 63, no. 2	0105- 0218	0001- 0114
Physical Review Letters 17 July 89, vol. 63, no. 3	0219- 0340	0115- 0236
Physical Review A 1 August 89, vol. 40, no. 3	1153- 1734	0237- 0818
Journal of the Optical Society A August 89, vol. 6, no. 8	1137- 1248	0819- 0930
American Journal of Physics September 89, vol. 57, no. 9	0769- 0864	0931- 1026
Computers in Physics Sep/Oct 89, vol. 3, no. 5	0001- 0112	1027- 1138
Physical Review Letters 24 July 89, vol. 63, no. 4	0341- 0466	1139- 1264
Physical Review Letters 31 July 89, vol. 63, no. 5	0467- 0584	1265- 1382

*Journal of Material Research July/August 89, vol. 4, no. 4	0745- 1055	1383- 1693
Physics Today August 89, vol. 42, no. 8-Part I	0001- 0112	1694- 1803
Physics Today-Buyers Guide August 89, vol. 42, no. 8-Part II	BG01 BG250	1804- 2054
Physical Review Letters 07 July 89, vol. 63, no. 6	0585- 0696	2055- 2165
Optics Letters 1 September 89, vol. 14, no. 17	0907- 0976	2166- 2235

CPM 8909C	Page	Frame
Journal of Vacuum Science and Technology B July/Aug 89, vol. 7, no. 4	0589- 1052	0001- 0464
Review of Scientific Instruments August 89, vol. 60, no. 8	2571- 2824	0465- 0718
*Journal of Chemical Physics 15 August 89, vol. 91, no. 4	1953- 2770	0719- 1536
Journal of Applied Physics 1 September 89, vol. 66, no. 5	1901- 2240	1537- 1876
Journal of Lightwave Technology August 89, vol. 7, no. 8	1137- 1284	1877- 2024
Optics News August 89, vol. 15, no. 8	0001- 0048	2025- 2072
Optics Letters 15 August 89, vol. 14, no. 16	0835- 0906	2073- 2144
Applied Phys Letters 28 August 89, vol. 55, no. 9	0813- 0926	2145- 2258

CPM 8909D	Page	Frame
Physical Review B 15 July 89, vol. 40, no. 3-Part II	1443- 2018	0001- 0576
Physical Review B 1 August 89, vol. 40, no. 4	2019- 2748	0577- 1306
Physical Review D 1 August 89, vol. 40, no. 3	0693- 0930	1307- 1544
*Journal of Chemical Physics 1 September 89, vol. 91, no. 5	2771- 3286	1545- 2060
Journal of Lightwave Technology September 89, vol. 7, no. 9	1285- 1426	2061- 2202

CPM 8909E	Page	Frame
Journal of Mathematical Physics September 89, vol. 30, no. 9	1957– 2194	0001– 0238
*Astronomical Journal September 89, vol. 98, no. 3	0755– 1142	0239– 0626
Physical Review C September 89, vol. 40, no. 2	0475– 1092	0627– 1244
Journal of the Optical Society of America B August 89, vol. 6, no. 8	1433– 1616	1245– 1428
Physics of Fluids A September 89, vol. 1, no. 9	1439– 1610	1429– 1600
*Physics of Fluids B September 89, vol. 1, no. 9	1767– 1948	1601– 1782
Physical Review D 15 August 89, vol. 40, no. 4	0931– 1384	1783– 2236

CPM 8909F	Page	Frame
*Physical Review A 15 August 89, vol. 40, no. 4	1735– 2232	0001– 0498
Physical Review B 15 August 89, vol. 40, no. 5-Part I	2749– 3506	0499– 1256
Physical Review Letters 14 August 89, vol. 63, no. 7	0697– 0818	1257– 1378
Physical Review Letters 21 August 89, vol. 63, no. 8	0819– 0918	1379– 1478
Review of Scientific Instruments September 89, vol. 60, no. 9	2825– 3108	1479– 1762
Journal of the Acoustical Society of America September 89, vol. 86, no. 3	0875– 1222	1763– 2110
Applied Physics Letters 4 September 89, vol. 55, no. 10	0927– 1052	2111– 2235

CPM 8909G	Page	Frame
Physical Review B 15 August 89, vol. 40, no. 6-Part II	3507– 4236	0001– 0730
Journal of Applied Physics 15 September 89, vol. 66, no. 6	2241– 2778	0731– 1268
Applied Optics 15 August 89, vol. 28, no. 16	3255– 3542	1269– 1556

Applied Physics Letters 11 September 89, vol. 55, no. 11	1053– 1148	1557– 1652
Journal of Chemical Physics 15 September 89, vol. 91, no. 6	3287– 3800	1653– 2166
Physical Review Letters 28 August 89, vol. 63, no. 9	0919– 1030	2167– 2278

CPM 8909X	Page	Frame
Soviet Physics-Technical Physics September 88, vol. 33, no. 9	0995– 1110	0001– 0116
Soviet Physics-Doklady November 88, vol. 33, no. 11	0779– 0868	0117– 0206
Soviet Journal of Low Temperature Physics October 88, vol. 14, no. 10	0553– 0618	0207– 0272
Soviet Technical Physics Letters October 88, vol. 14, no. 10	0751– 0832	0273– 0354
Soviet Physics-Crystallography Jan-Feb 89, vol. 34, no. 1	0001– 0162	0355– 0516
Soviet Physics-Semiconductors January 89, vol. 23, no. 1	0001– 0124	0517– 0640
Soviet Physics-Solid State January 89, vol. 31, no. 1	0001– 0176	0641– 0816
JETP Letters 25 March 89, vol. 49, no. 6	0345– 0414	0817– 0886
Soviet Physics-Acoustics Nov-Dec 88, vol. 34, no. 6	0553– 0672	0887– 1006
Soviet Physics Crystallography Nov-Dec 88, vol. 33, no. 6	0795– 0976	1007– 1188
JETP Letters 10 April 89, vol. 49, no. 7	0415– 0470	1189– 1244
Soviet Journal of Quantum Electronics March 89, vol. 19, no. 3	0271– 0422	1245– 1396
Soviet Physics-Jetp February 89, vol. 68, no. 2	0217– 0438	1397– 1618
Soviet Physics-Jetp March 89, vol. 68, no. 3	0439– 0664	1619– 1844
Optics & Spectroscopy November 88, vol. 65, no. 5	0585– 0702	1845– 1962
Soviet Journal of Low Temperature Physics November 88, vol. 14, no. 11	0619– 0682	1963– 2026
Soviet Physics-Uspekhi February 89, vol. 32, no. 2	0101– 0188	2027– 2115
Soviet Journal of Optical Technology February 89, vol. 56, no. 2	0063– 0126	2116– 2178

*PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

J. Y. Lee *et al.*, J. Mater. Res., Vol. 4, No. 4 (July/August 1989) p. 0763 (3 pp., 1 fiche).

S. Paddi Reddy & C. V. V. Prasad, J. Chem. Phys., Vol. 91, No. 4 (15 August 1989) p. 1972 (6 pp., 1 fiche).

Lionel Goodman & Ali G. Ozkabak, J. Chem. Phys., Vol. 91, No. 4 (15 August 1989) p. 2069 (16 pp., 1 fiche).

Mitsutoshi Tanimoto *et al.*, J. Chem. Phys., Vol. 91, No. 4 (15 August 1989) p. 2102 (11 pp., 1 fiche).

Ben Kraiem *et al.*, J. Chem. Phys. Vol. 91, No. 4 (15 August 1989) p. 2148 (5 pp., 1 fiche).

Stephen P. Walch & Celeste McMichael Rohlfing, J. Chem. Phys., Vol. 91, No. 4 (15 August 1989) p. 2373 (8 pp., 1 fiche).

P. Kowalczyk, J. Chem. Phys. Vol. 91, No. 5 (1 September 1989) p. 2779 (43 pp., 1 fiche).

Gerrit C. Groenenboom *et al.*, J. Chem. Phys. Vol. 91, No. 5 (1 September 1989) p. 3027 (10 pp., 1 fiche).

Stephen P. Francic, Astron. J., Vol. 98, No. 3 (September 1989) p. 0888 (61 pp., 1 fiche).

David R. Thayer, Phys. Fluids B, Vol. 1, No. 9 (September 1989) p. 1818 (81 pp., 1 fiche) [MIT Report 1985 by D. Thayer & K. Molvig].

L. Iess & M. Dobrowolny, Phys. Fluids B, Vol. 1, No. 9 (September 1989) p. 1880 (13 pp., 1 fiche) [NRL Report 3076-1976 by M. Lampe *et al.*].

Frederick W. King, Phys. Rev. A, Vol. 40, No. 4 (15 August 1989) p. 1735 (7 pp., 1 fiche).

Current Physics Microform

Monthly Table of Contents

OCTOBER
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8910A	Page	Frame
*American Journal of Physics October 89, vol. 57, no. 10	0865- 0960	0001- 0096
Journal of Vacuum Science & Technology A Sept/Oct 89, vol. 7, no. 5	2931- 3146	0097- 0312
Physical Review Letters 4 September 89, vol. 63, no. 10	1031- 1120	0313- 0402
Journal of the Optical Society of America-B September 89, vol. 6, no. 9	1617- 1768	0403- 0554
Applied Optics 1 September 89, vol. 28, no. 17	3543- 3778	0555- 0790
Journal of Applied Physics 1 October 89, vol. 66, no. 7	2779- 3428	0791- 1440
Astronomical Journal October 89, vol. 98, no. 4	1143- 1506	1441- 1804
Journal of Physical & Chemical Reference Data July-Sept, vol. 18, no. 3	1111- 1536	1805- 2229

CPM 8910B	Page	Frame
Physical Review C September 89, vol. 40, no. 3	1093- 1554	0001- 0462
Physical Review B 1 September 89, vol. 40, no. 7, Part A	4237- 4771	0463- 0998
Physical Review B 1 September 89, vol. 40, no. 7, Part B	4773- 5318	0999- 1544
Physical Review B 15 September 89, vol. 40, no. 8 Part I	5319- 5908	1545- 2134
Physical Review Letters 11 September 89, vol. 63, no. 11	1121- 1194	2135- 2208

CPM 8910C	Page	Frame
AIP Conference Proceedings Number 188	0001- 0500	0001- 0500
AIP Conference Proceedings Number 189	0001- 0534	0501- 1034
AIP Conference Proceedings Number 190	0001- 0518	1035- 1552
Applied Physics Letters 18 September 89, vol. 55, no. 12	1149- 1272	1553- 1676
Applied Physics Letters 25 September 89, vol. 55, no. 13	1273- 1372	1677- 1776

Applied Optics 15 September 89, vol. 28, no. 18	3779- 4034	1777- 2032
Physics Today September 89, vol. 42, no. 9	0001- 0176	2033- 2208

CPM 8910D	Page	Frame
Physical Review A 1 September 89, vol. 40, no. 5	2233- 2886	0001- 0654
Physical Review A 15 September 89, vol. 40, no. 6	2887- 3474	0655- 1242
*Physical Review D 1 September 89, vol. 40, no. 5	1385- 1734	1243- 1592
Physical Review D 15 September 89, vol. 40, no. 6	1735- 2162	1593- 2020
Optics News September 89, vol. 15, no. 9	0001- 0206	2021- 2226

CPM 8910E	Page	Frame
*Journal of Chemical Physics 1 October 89, vol. 91, no. 7	3801- 4434	0001- 0634
Physics of Fluids A October 89, vol. 1, no. 10	1611- 1760	0635- 0784
*Physics of Fluids B October 89, vol. 1, no. 10	1949- 2138	0785- 0974
Physical Review B 15 September 89, vol. 40, no. 9-Part 2	5909- 6474	0975- 1540
*Review of Scientific Instruments October 89, vol. 60, no. 10	3109- 3376	1541- 1808
Journal of the Optical Society A September 89, vol. 6, no. 9	1249- 1512	1809- 2072
The Physics Teacher September 89, vol. 27, no. 6	0417- 0496	2073- 2152
Bulletin of the American Physical Society September 89, vol. 34, no. 8	1781- 1892	2153- 2264

CPM 8910F	Page	Frame
Journal of Materials Research Sept/Oct 89, vol. 4, no. 5	1057- 1288	0001- 0232
Physical Review Letters 18 September 89, vol. 63, no. 12	1195- 1327	0233- 0364

Journal of the Acoustical Society of America October 89, vol. 86, no. 4	1223- 1642	0365- 0784
Journal of Mathematical Physics October 89, vol. 30, no. 10	2195- 2456	0785- 1046
Optics Letters 15 September 89, vol. 14, no. 18	0975- 1038-	1047- 1110-
Optics Letters 1 October 89, vol. 14, no. 19	1039- 1094	1111- 1166
Applied Physics Letters 2 October 89, vol. 55, no. 14	1373- 1488	1167- 1282
Applied Physics Letters 09 October 89, vol. 55, no. 15	1489- 1596	1283- 1390
Applied Physics Letters 16 October 89, vol. 55, no. 16	1597- 1700	1391- 1494
Applied Physics Letters 23 October 89, vol. 55, no. 17	1701- 1816	1495- 1610
Physical Review Letters 25 September 89, vol. 63, no. 13	1329- 1442	1611- 1724
Physical Review Letters 2 October 89, vol. 63, no. 14	1443- 1540	1725- 1822
Bulletin of the American Physical Society 2 October 89, vol. 34, no. 9	1893- 2238	1823- 2168
The Physics Teacher October 89, vol. 27, no. 7	0497- 0576	2169- 2248

CPM 8910G1	Page	Frame
------------	------	-------

Journal of Applied Physics 15 October 89, vol. 66, no. 8	3429- 3974	0001- 0546
*Journal of Chemical Physics 15 October 89, vol. 91, no. 8	4435- 5138	0547- 1250
Journal of Vacuum Science & Technology B Sept/Oct 89, vol. 7, no. 5	1053- 1320	1251- 1514
Medical Physics Sept/Oct 89, vol. 16, no. 5	0687- 0836	1515 1664

CPM 8910G2	Page	Frame
------------	------	-------

Physical Review D 1 October 89, vol. 40, no. 7	2163- 2498-	1665 2000
---	----------------	--------------

Applied Optics 1 October 89, vol. 28, no. 19	4035- 4250	2001 2216
Journal of the Optical Society of America A October 89, vol. 6, no. 10	1513- 1656	2217 2260
Physical Review C October 89, vol. 40, no. 4	1555- 1850	2361 2656
Physics Today October 89, vol. 42, no. 10	0001- 0184	2657 2840
Optics News October 89, vol. 15, no. 10	0001- 0048	2841 2889

CPM 8910X	Page	Frame
-----------	------	-------

Soviet Physics-Technical Physics October 88, vol. 33, no. 10	111- 1252	0001- 0142
Soviet Physics-Technical Physics November 88, vol. 33, no. 11	1253- 1390	0143- 0280
Soviet Technical Physics Letters November 88, vol. 14, no. 11	0833- 0916	0281- 0364
Chinese Physics July-Sept 89, vol. 9, no. 3	0611- 0928	0365- 0682
Soviet Journal of Quantum Electronics April 89, vol. 19, no. 4	0423- 0574	0683- 0834
Soviet Physics-Acoustics Jan-Feb 89, vol. 35, no. 1	0001- 0192	0835- 1026
Soviet Physics-Technical Physics January 89, vol. 34, no. 1	0001- 0130	1027- 1156
Jetp Letters 25 April 89, vol. 49, no. 8	0471- 0540-	1157- 1226-
Jetp Letters 10 May 89, vol. 49, no. 9	0541- 0614	1227- 1300
Soviet Journal of Nuclear Physics February 89, vol. 49, no. 2	0197- 0386	1301- 1490
Soviet Physics Doklady December 88, vol. 33, no. 12	0869- 1024	1491- 1646
Soviet Technical Physics Letters December 88, vol. 14, no. 12	0917- 1090	1647- 1820
Soviet Physics-Technical Physics December 88, vol. 33, no. 12	1391- 1534	1821- 1964
Soviet Astronomy November-December 88, vol. 32, no. 6	0587- 0718	1965- 2096
Soviet Journal of Plasma Physics January 89, vol. 15, no. 1	0001- 0072	2097- 2168

***PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)**

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

Richard D. Piccard & Sue A. Carter, Am. J. Phys., Vol. 57, No. 10 (October 1989) p. 0931 (6 pp., 1 fiche).

B. F. L. Ward, Phys. Rev. D, Vol. 40, No. 5, (1 September 1989) p. 1411 (20 pp., 1 fiche).

Satosi Okada & Osamu Matsuoka, J. Chem. Phys., Vol. 91, No. 7 (1 October 1989) p. 4193 (202 pp., 3 fiche).

B. H. Quon & R. A. Dandl, Phys. Fluids B, Vol. 1, No. 10 (October 1989) p. 2010 (98 pp., 1 fiche) [AMPC Phase II Tokamak Final Report-by R. L. Miller *et al.*].

M. S. Harrington, *et al.*, Rev. Sci. Instrum., Vol. 60, No. 10 (October 1989) p. 3323 (23 pp., 1 fiche).

C. R. Brazier & P. F. Bernath, J. Chem. Phys., Vol. 91, No. 8 (15 October 1989) p. 4548 (64 pp., 1 fiche).

Library lacks
November 1989
Monthly Table of
Contents
Issue

Current Physics Microform

Monthly Table of Contents

DECEMBER
1989

AMERICAN INSTITUTE OF PHYSICS, 335 EAST 45 STREET, NEW YORK, NY 10017

CPM 8912A	Page	Frame
Physical Review B 1 November 89, vol. 40, no. 13	8607- 9456	0001- 0850
*Physical Review C November 89, vol. 40, no. 5	1851- 2440	0851- 1440
Physical Review A 15 November 89, vol. 40, no. 10	5489- 6148	1441- 2100
Optics News December 89, vol. 15, no. 12	0001- 0088	2101- 2188
Physics Teacher December 89, vol. 27, no. 9	0641- 0704	2189- 2252

CPM 8912B	Page	Frame
American Journal of Physics December 89, vol. 57, no. 12	1057- 1184	0001- 0128
Astronomical Journal December 89, vol. 98, no. 6	1951- 2430	0129- 0608
Applied Physics Letters 20 November 89, vol. 55, no. 21	2161- 2264	0609- 0712
Journal of Chemical Physics 1 December 89, vol. 91, no. 11	6549- 7318	0713- 1482
Journal of Mathematical Physics December 89, vol. 30, no. 12	2735- 3044	1483- 1792
Applied Physics Letters 27 November 89, vol. 55, no. 22	2265- 2376	1793- 1904
Journal of Materials Research Nov/Dec 89, vol. 4, no. 6	1289- 1616	1905- 2231

CPM 8912C	Page	Frame
Journal of Applied Physics 1 December 89, vol. 66, no. 11	5131- 5684	0001- 0554
Physics of Fluids A December 89, vol. 1, no. 12	1911- 2132	0555- 0776
Physics of Fluids B December 89, vol. 1, no. 12	2305- 2604	0777- 1006
Physical Review B 15 November 89, vol. 40, no. 14-Part I	9457- 10078	1007- 1628
Physical Review B 15 November 89, vol. 40, no. 15-Part II	10079- 10676	1629- 2226

CPM 8912D	Page	Frame
Physical Review D 15 November 89, vol. 40, no. 10	3153- 3556	0001- 0404
Applied Physics Letters 4 December 89, vol. 55, no. 23	2377- 2472	0405- 0500
Applied Optics 15 November 89, vol. 28, no. 22	4715- 4954	0501- 0740
Journal of the Acoustical Society of America December 89, vol. 86, no. 6	2063- 2578	0741- 1256
Review of Modern Physics October 89, vol. 61, no. 4	0763- 1028	1257- 1522
Applied Physics Letters 11 December 89, vol. 55, no. 24	2473- 2572	1523- 1701
Optics Letters 1 December 89, vol. 14, no. 23	1297- 1340	1702- 1745
Physical Review Letters 20 November 89, vol. 63, no. 21	2319- 2433	1746- 1860
Physical Review Letters 27 November 89, vol. 63, no. 22	2435- 2540	1861- 1966
Journal of the Optical Society of America-A December 89, vol. 6, no. 12	1809- 1986	1967- 2144
Optics Letters 15 December 89, vol. 14, no. 24	1341- 1413	2145- 2216

CPM 8912E	Page	Frame
Journal of Chemical Physics 15 December 89, No. 91, no. 12	7319- 8114	0001- 0796
Physical Review B 1 December 89, vol. 40, no. 16	10677- 11476	0797- 1596
Journal of Physical and Chemical Reference Data October 89, vol. 18, no. 4	1537- 1854	1597- 1914
Physical Review D 1 December 89, vol. 40, no. 11	3557- 3808	1915- 2166
Physical Review Letters 4 December 89, vol. 63, no. 23	2541- 2612	2167- 2238

CPM 8912F	Page	Frame
Journal of Applied Physics 15 December 89, vol. 66, no. 12	5685- 6350	0001- 0666

Journal of Vacuum Science and Technology B	1321-	0667-
November 89, vol. 7, no. 6	2140	1486
Physical Review A	6149-	1487-
1 December 89, vol. 40, no. 11	6780	2118
Physical Review Letters	2613-	2119-
11 December 89, vol. 63, no. 24	2696	2202

CPM 8912G	Page	Frame
Physical Review A	6781-	0001-
15 December 89, vol. 40, no. 12	7468	0688
Physical Review C	2441-	0689-
December 89, vol. 40, no. 6	2956	1204
Review of Scientific Instruments	3597-	1205-
December 89, vol. 60, no. 12	3968	1576
Applied Optics	4955-	1577-
1 December 89, vol. 28, no. 23	5186	1808
Applied Physics Letters	2573-	1809-
18 December 89, vol. 55, no. 25	2688	1924
Applied Physics Letters	2689-	1925-
25 December 89, vol. 55, no. 26	2804	2040
Physical Review Letters	2697-	2041-
18 December 89, vol. 63, no. 25	2770	2114
Physics Today	0001-	2115-
December 89, vol. 42, no. 12	0144	2258

CPM 8912X	Page	Frame
Soviet Technical Physics Letters	0079-	0001-
February 89, vol. 15, no. 2	0162	0084
Soviet Physics-JETP	0889-	0085-
May 89, vol. 68, no. 5	1110	0306
Soviet Physics-Semiconductors	0367-	0307-
April 89, vol. 23, no. 4	0478	0418
Soviet Astronomy Letters	0001-	0419-
January 89, vol. 15, no. 1	0082	0500
Soviet Journal of Plasma Physics	0223-	0501-
April 89, vol. 15, no. 4	0296	0574
Soviet Physics-Uspexhi	0289-	0575-
April 89, vol. 32, no. 4	0384	0670
Soviet Physics Doklady	0079-	0671-
February 89, vol. 34, no. 2	0182	0774
Optics & Spectroscopy	0001-	0775-
January 89, vol. 66, no. 1	0138	0912
JETP Letters	0615-	0913-
25 May 89, vol. 49, no. 10	0666	0964
JETP Letters	0667-	0965-
10 June 89, vol. 49, no. 11	0734	1032
Soviet Journal of Nuclear Physics	0567-	1033-
April 89, vol. 49, no. 4	0754	1220
Soviet Journal of Low Temperature Physics	0065-	1221-
February 89, vol. 15, no. 2	0126	1282
Soviet Physics-Technical Physics	0131-	1283-
February 89, vol. 34, no. 2	0254	1406
Soviet Technical Physics Letters	0163-	1407-
March 89, vol. 15, no. 3	0246	1490

Soviet Physics-Solid State	0545-	1491-
April 89, vol. 31, no. 4	0720-	1666
Soviet Technical Physics Letters	0001-	1667-
January 89, vol. 15, no. 1	0078	1744
JETP Letters	0735-	1745-
25 June 89, vol. 49, no. 12	0792	1802
Optics & Spectroscopy	0139-	1803-
February 89, vol. 66, no. 2	0278	1942
Soviet Physics-Crystallography	0163-	1943-
March-April 89, vol. 34, no. 2	0318	2098
Soviet Physics-Uspexhi	0385-	2099-
May 89, vol. 32, no. 5	0478	2192
Soviet Physics-Doklady	0183-	2193-
March 89, vol. 34, no. 3	0276	2286

CPM 8912Y	Page	Frame
Soviet Journal Quantum Electronics	0575-	0001-
May 89, vol. 19, no. 5	0708	0134
Soviet Journal of Optical Technology	0191-	0135-
April 89, vol. 56, no. 4	0258	0202
Soviet Astronomy	0113-	0203-
March-April 89, vol. 33, no. 2	0228	0318
Soviet Physics-Doklady	0277-	0319-
April 89, vol. 34, no. 4	0386	0428
Soviet Journal of Plasma Physics	0297-	0429-
May 89, vol. 15, no. 5	0370	0502
Soviet Physics-Semiconductors	0479-	0503-
May 89, vol. 23, no. 5	0588	0612
Soviet Technical Physics Letters	0247-	0613-
April 89, vol. 15, no. 4	0326	0692
Soviet Journal of Nuclear Physics	0755-	0693-
May 89, vol. 49, no. 5	0940	0878
Optics & Spectroscopy	0279-	0879-
March 89, vol. 66, no. 3	0420	1020
Soviet Journal of Optical Technology	0259-	1021-
May 89, vol. 56, no. 5	0324	1086
Soviet Physics-JETP	1111-	1087-
June 89, vol. 68, no. 6	1310	1286
Soviet Journal Quantum Electronics	0709-	1287-
June 89, vol. 19, no. 6	0838	1416
Soviet Physics-Technical Physics	0255-	1417-
March 89, vol. 34, no. 3	0382	1544
Chinese Physics	0929-	1545-
Oct-Dec, vol. 9, no. 4	1224	1840
JETP Letters	0001-	1841-
10 July 89, vol. 50, no. 1	0054	1894
JETP Letters	0055-	1895-
25 July 89, vol. 50, no. 2	0116	1956
Soviet Astronomy Letters	0083-	1957-
March-April 89, vol. 15, no. 2	0166	2040
Soviet Journal of Low Temperature Physics	0127-	2041-
March 89, vol. 15, no. 3	0190	2104
Soviet Physics-Semiconductors	0589-	2105-
June 89, vol. 23, no. 16	0706	2221

***PHYSICS AUXILIARY PUBLICATION SERVICE (PAPS)**

Journal issues identified by an asterisk above contain articles with supplementary material in PAPS. This material is not printed in the journal issues themselves, but is available from: PAPS Editor, American Institute of Physics, 335 E. 45 St., New York, NY 10017

M. A. Plum *et al.*, Phys. Rev. C, Vol. 40, No. 5 (November 1989) p. 1861 (15 pp., 1 fiche).

Hans-Rolf Dubal *et al.*, J. Chem. Phys. Vol. 91, No. 11 (1 December 1989) p. 6698 (15 pp., 1 fiche).

L. Seijo *et al.*, J. Chem. Phys., Vol. 91, No. 11 (1 December 1989) p. 7011 (03 pp., 1 fiche).

B. G. Hong & W. Horton, Phys. Fluids B, Vol. 1, No. 12 (December 1989) p. 2527 (16 pp., 1 fiche) [IFSR Report #364-2/89 by N. Bekki *et al.*].

K. L. Ngai and S. W. Martin, Phys. Rev. B., Vol. 40, No. 15 (15 November 1989) p. 10550 (13 pp., 1 fiche).

C. R. Brazier *et al.*, J. Chem. Phys., Vol. 91, No. 12 (15 December 1989) p. 7384 (04 pp., 1 fiche).

E. Kruger, Phys. Rev. B, Vol. 40, No. 16 (1 December 1989) p. 11090 (19 pp., 1 fiche).

-----Original Message-----

From: Susann Brailey [<mailto:sbrailey@aip.org>]

Sent: Thursday, 08 September, 2011 7:56 AM

To: Bothmann, Robert L

Subject: RE: AIP Corp Correspondence

Dear Dr. Bothmann:

Thank you for your inquiry.

You have permission from the American Institute of Physics to scan the "Monthly Table of Contents" and "Cumulative Index" and post them to your website.

Please include an appropriate credit line such as: "Reprinted with permission from American Institute of Physics."

Thanks very much.

Sincerely,

Susann Brailey

Manager, Rights and Permissions

Office of the Publisher, Journals and Technical Publications American Institute of Physics Suite 1N01

2 Huntington Quadrangle

Melville, NY 11747-4502

Phone: 1-516-576-2268

Fax: 1-516-576-2450

Email: rights@aip.org
