

Monthly Table of Contents

CPM 8301A	Page	Frame
Physical Review C December 82, vol. 26, no. 6	2349– 2728	0001– 0380
Physical Review Letters 20 December 82, vol. 49, no. 25	1801– 1876	0381– 0456
Bulletin of the American Physical Society January 83, vol. 28, no. 1	0001– 0078	0457– 0534
Physics of Fluids December 82, vol. 25, no. 12	2135– 2452	0535– 0852
Journal of Mathematical Physics December 82, vol. 23, no. 12	2217– 2628	0853– 1264
Astronomical Journal December 82, vol. 87, no. 12	1621– 1916	1265– 1560
Physical Review D 15 December 82, vol. 26, no. 12	3315– 3778	1561– 2024

CPM 8301B	Page	Frame
Applied Optics 15 December 82, vol. 21, no. 24	4391– 4608	0001– 0218
*Journal of Chemical Physics 1 January 83, vol. 78, no. 1	0001– 0612	0219– 0830
Review of Scientific Instruments January 83, vol. 54, no. 1	0001– 0136	0831– 0966
Physical Review Letters 18 October 82, vol. 49, no. 16	1121– 1216	0967– 1062
Applied Physics Letters 15 December 82, vol. 41, no. 12	1111– 1228	1063– 1180
Applied Physics Letters 1 January 83, vol. 42, no. 1	0001– 0126	1181– 1306
Applied Physics Letters 15 January 83, vol. 42, no. 2	0127– 0210	1307– 1390
Physical Review B 15 December 82, vol. 26, no. 12	6349– 7160	1391– 2202

CPM 8301C	Page	Frame
Physical Review Letters 27 December 82, vol. 49, no. 26	1877– 1962	0001– 0086
Journal of the Optical Society of America December 82, vol. 72, no. 12	1577– 1896	0087– 0406
Physical Review D 1 January 83, vol. 27, no. 1	0001– 0314	0407– 0720
Optics Letters December 82, vol. 7, no. 12	0575– 0644	0721– 0790
Physics Teacher January 83, vol. 21, no. 1	0001– 0068	0791– 0858

Journal of Applied Physics January 83, vol. 54, no. 1	0001– 0460	0859– 1318
Journal of Mathematical Physics January 83, vol. 24, no. 1	0001– 0220	1319– 1538
Physical Review Letters 3 January 83, vol. 50, no. 1	0001– 0086	1539– 1624
Applied Optics January 83, vol. 22, no. 1	0001– 0200	1625– 1824
AIP Conference Proceedings No. 94	0001– 0802	1825– 2626

CPM 8301D	Page	Frame
*Physical Review A January 83, vol. 27, no. 1	0001– 0614	0001– 0614
American Journal of Physics January 83, vol. 51, no. 1	0001– 0096	0615– 0710
Journal of the Acoustical Society of America January 83, vol. 73, no. 1	0001– 0408	0711– 1118
Journal of Chemical Physics 15 January 83, vol. 78, no. 2	0613– 1006	1119– 1512
Physics Today January 83, vol. 36, no. 1	0001– 0136	1513– 1648
Journal of the Optical Society of America January 83, vol. 73, no. 1	0001– 0128	1649– 1776
Physical Review Letters 10 January 83, vol. 50, no. 2	0087– 0140	1777– 1830
Bulletin of the American Astronomical Society 82, vol. 14, no. 4	0839– 0998	1831– 1990

CPM 8301E	Page	Frame
Optics Letters January 83, vol. 8, no. 1	0001– 0066	0001– 0066
Optics News January 83, vol. 9, no. 1	0001– 0048	0067– 0114
Physical Review B 1 January 83, vol. 27, no. 1	0001– 0618	0115– 0732
Reviews of Modern Physics January 83, vol. 55, no. 1	0001– 0330	0733– 1062

CPM 8301X	Page	Frame
Soviet Journal of Low Temperature Physics March 82, vol. 8, no. 3	0113– 0168	0001– 0056

Soviet Physics-Doklady April 82, vol. 27, no. 4	0267- 0358	0057- 0148	Soviet Journal of Low Temperature Physics April 82, vol. 8, no. 4		0169- 0220	1723- 1774
Soviet Technical Physics Letters April 82, vol. 8, no. 4	0167- 0222	0149- 0204	Soviet Physics-Technical Physics May 82, vol. 27, no. 5		0535- 0640	1775- 1880
Soviet Physics-Technical Physics March 82, vol. 27, no. 3	0265- 0388	0205- 0328	JETP Letters 20 July 82, vol. 36, no. 2		0023- 0062	1881- 1920
Soviet Physics-JETP May 82, vol. 55, no. 5	0791- 0990	0329- 0528	Soviet Technical Physics Letters May 82, vol. 8, no. 5		0223- 0278	1921- 1976
Soviet Physics-USpekhi April 82, vol. 25, no. 4	0195- 0278	0529- 0612	Soviet Physics-Technical Physics April 82, vol. 27, no. 4		0389- 0534	1977- 2122
Soviet Journal of Quantum Electronics July 82, vol. 12, no. 7	0827- 0976	0613- 0762	Soviet Physics-Doklady May 82, vol. 27, no. 5		0359- 0426	2123- 2190
Soviet Physics-Solid State July 82, vol. 24, no. 7	1097- 1264	0763- 0930				
Soviet Physics-JETP June 82, vol. 55, no. 6	0991- 1194	0931- 1134				
Soviet Physics-Semiconductors August 82, vol. 16, no. 8	0857- 0980	1135- 1258				
Soviet Astronomy Letters March 82, vol. 8, no. 2	0067- 0138	1259- 1330				
Soviet Physics-Crystallography July 82, vol. 27, no. 4	0389- 0502	1331- 1444				
Soviet Journal of Optical Technology April 82, vol. 49, no. 4	0199- 0264	1445- 1510				
Soviet Astronomy March 82, vol. 26, no. 2	0129- 0254	1511- 1636				
Soviet Physics-Acoustics July 82, vol. 28, no. 4	0257- 0342	1637- 1722				
			CPM 8301Y		Page	Frame
			Optics and Spectroscopy May 82, vol. 52, no. 5		0461- 0576	0001- 0116
			Chinese Physics October 82, vol. 2, no. 4		0897- 1208	0117- 0428
			Optics and Spectroscopy June 82, vol. 52, no. 6		0577- 0608	0429- 0460
			Soviet Journal of Nuclear Physics May 82, vol. 35, no. 5		0627- 0792	0461- 0626
			Soviet Journal of Quantum Electronics August 82, vol. 12, no. 8		0977- 1126	0627- 0776
			Soviet Physics-USpekhi May 82, vol. 25, no. 5		0279- 0370	0777- 0868

***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 appears here in CPM on the frames immediately following the appropriate articles:

Heenan et al., J. Chem. Phys., Vol. 78, No. 1 (1 January 1983) p. 0243 (5 pgs., 1 fiche)

W. McNeill et al., J. Chem. Phys., Vol. 78, No. 1 (1 January 1983) p. 0388 (39 pgs. 1 fiche)

D. Thirumalai et al., Phys. Rev. A, Vol. 27, No. 1 (January 1983) p. 0158 (10 pgs., 1 fiche)

Monthly Table of Contents

CPM 8302A	Page	Frame
Astronomical Journal January 83, vol. 88, no. 1	0001- 0144	0001- 0144
Applied Physics Letters 1 February 83, vol. 42, no. 3	0211- 0308	0145- 0242
Physics of Fluids January 83, vol. 26, no. 1	0001- 0346	0243- 0588
Journal of Vacuum Science and Technology-A January 83, vol. 1, no. 1	0001- 0110	0589- 0698
Physical Review D 15 January 83, vol. 27, no. 2	0315- 0474	0699- 0858
Physical Review C January 83, vol. 27, no. 1	0001- 0458	0859- 1316
Applied Optics 15 January 83, vol. 22, no. 2	0201- 0360	1317- 1476
Physical Review Letters 17 January 83, vol. 50, no. 3	0141- 0220	1477- 1556
Applied Physics Letters 15 February 83, vol. 42, no. 4	0309- 0400	1557- 1648
*Journal of Chemical Physics 1 February 83, vol. 78, no. 3	1007- 1626	1649- 2268

CPM 8302B	Page	Frame
Physical Review Letters 24 January 83, vol. 50, no. 4	0221- 0286	0001- 0066
Applied Optics 1 February 83, vol. 22, no. 3	0361- 0504	0067- 0210
Journal of the Optical Society of America February 83, vol. 73, no. 2	0129- 0248	0211- 0330
American Journal of Physics February 83, vol. 51, no. 2	0097- 0192	0331- 0426
Journal of Applied Physics February 83, vol. 54, no. 2	0461- 1178	0427- 1144
Journal of the Acoustical Society of America February 83, vol. 73, no. 2	0409- 0724	1145- 1460
Journal of Mathematical Physics February 83, vol. 24, no. 2	0221- 0410	1461- 1650
Review of Scientific Instruments February 83, vol. 54, no. 2	0137- 0270	1651- 1784
Optics Letters February 83, vol. 8, no. 2	0067- 0132	1785- 1850
Physics Teacher February 83, vol. 21, no. 2	0069- 0140	1851- 1922

CPM 8302C	Page	Frame
Physical Review D 1 February 83, vol. 27, no. 3	0475- 0698	0001- 0224
Physical Review Letters 31 January 83, vol. 50, no. 5	0287- 0382	0225- 0320
Physical Review B 15 January 83, vol. 27, no. 2	0619- 1464	0321- 1166
Bulletin of the American Physical Society February 83, vol. 28, no. 2	0079- 0226	1167- 1314
Physical Review B 1 February 83, vol. 27, no. 3	1465- 1964	1315- 1804
Physical Review Letters 7 February 83, vol. 50, no. 6	0383- 0458	1805- 1880
Journal of Vacuum Science and Technology-B January 83, vol. 1, no. 1	0001- 0118	1881- 1998
Physics Today February 83, vol. 36, no. 2	0001- 0136	1999- 2134

CPM 8302X	Page	Frame
Soviet Journal of Low Temperature Physics May 82, vol. 8, no. 5	0221- 0278	0001- 0058
Soviet Journal of Low Temperature Physics June 82, vol. 8, no. 6	0279- 0336	0059- 0116
Soviet Journal of Plasma Physics May 82, vol. 8, no. 3	0243- 0368	0117- 0242
Soviet Journal of Optical Technology May 82, vol. 49, no. 5	0265- 0332	0243- 0310
Soviet Technical Physics Letters June 82, vol. 8, no. 6	0279- 0332	0311- 0364
JETP Letters 5 August 82, vol. 36, no. 3	0063- 0134	0365- 0436
Soviet Physics-JETP July 82, vol. 56, no. 1	0001- 0242	0437- 0678
JETP Letters 20 August 82, vol. 36, no. 4	0135- 0174	0679- 0718
Soviet Astronomy May 82, vol. 26, no. 3	0255- 0382	0719- 0844
Soviet Astronomy Letters May 82, vol. 8, no. 3	0139- 0208	0845- 0914
Soviet Physics-Technical Physics June 82, vol. 27, no. 6	0641- 0774	0915- 1049
Soviet Physics-Doklady June 82, vol. 27, no. 6	0427- 0506	1049- 1128
Soviet Journal of Optical Technology June 82, vol. 49, no. 6	0333- 0400	1129- 1196

Soviet Journal of Particles and

Nuclei

July 82, vol. 13, no. 4

0317-

0386

1197-

1266

Soviet Physics-Semiconductors

September 82, vol. 16, no. 9

0981-

1108

1267-

1394

Soviet Physics-Solid State

August 82, vol. 24, no. 8

1265-

1444

1395-

1574

***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 appears here in CPM on the frames immediately following the appropriate articles:

R. Heenan and L. S. Bartell, J. Chem. Phys., Vol. 78, No. 2 (1 February 1983) p. 1265 (9 pgs., 1 fiche)

Monthly Table of Contents

CPM 8303A	Page	Frame			
Applied Physics Letters 1 March 83, vol. 42, no. 5	0401- 0478	0001- 0078	Applied Optics 1 March 83, vol. 21, no. 5	0633- 0760	0717- 0844
Physical Review D 15 February 83, vol. 27, no. 4	0699- 1000	0079- 0380	Journal of the Optical Society of America March 83, vol. 73, no. 3	0249- 0416	0845- 1012
Applied Optics 15 February 83, vol. 22, no. 4	0505- 0632	0381- 0508	Bulletin of the American Physical Society March 83, vol. 28, no. 3	0277- 0608	1013- 1344
Physical Review Letters 21 February 83, vol. 50, no. 8	0533- 0624	0509- 0580	Journal of Mathematical Physics March 83, vol. 24, no. 3	0411- 0728	1345- 1662
Physical Review C February 83, vol. 27, no. 2	0459- 0916	0581- 1038	AIP Conference Proceedings 83, No. 95	0001- 0646	1663- 2308
Journal of Physical and Chemical Reference Data October 82, vol. 11, no. 1	0001- 0134	1039- 1172			
*Astronomical Journal February 83, vol. 88, no. 2	0143- 0246	1173- 1276	CPM 8303D	Page	Frame
Journal of Chemical Physics 15 February 83, vol. 78, no. 4	1627- 2104	1277- 1754	Physical Review Letters 7 March 83, vol. 50, no. 10	0705- 0786	0001- 0082
Review of Scientific Instruments March 83, vol. 54, no. 3	0271- 0402	1755- 1886	Physics Today March 82, vol. 36, no. 3	0001- 0120	0083- 0202
Medical Physics January 83, vol. 10, no. 1	0001- 0134	1887- 2020	Physical Review Letters 14 March 83, vol. 50, no. 11	0787- 0866	0203- 0282
			Bulletin of the American Physical Society April 83, vol. 28, no. 4	0609- 0830	0283- 0504
			Physical Review Letter 28 February 83, vol. 50, no. 9	0625- 0704	0505- 0584
			Physical Review D 1 March 83, vol. 27, no. 5	1001- 1208	0585- 0792
			Physical Review B 15 February 83, vol. 27, no. 4	1955- 2624	0793- 1462
CPM 8303B	Page	Frame	CPM 8303X	Page	Frame
Physical Review Letters 14 February 83, vol. 50, no. 7	0459- 0552	0001- 0094	Soviet Physics-Technical Physics July 82, vol. 27, no. 7	0775- 0908	0001- 0134
Physical Review A February 83, vol. 27, no. 2	0615- 1274	0095- 0754	Soviet Physics-Acoustics September 82, vol. 28, no. 5	0341- 0428	0135- 0222
Physics of Fluids February 83, vol. 26, no. 2	0347- 0600	0755- 1008	Soviet Journal of Low Temperature Physics July 82, vol. 8, no. 7	0337- 0392	0223- 0278
Applied Physics Letters 15 March 83, vol. 42, no. 6	0479- 0550	1009- 1080	Soviet Physics-Technical Papers August 82, vol. 27, no. 8	0909- 1046	0279- 0416
Journal of Applied Physics March 83, vol. 54, no. 3	1179- 1650	1081- 1552	Soviet Physics-Doklady July 82, vol. 27, no. 7	0507- 0582	0417- 0492
Journal of Chemical Physics 1 March 83, vol. 78, no. 5	2105- 2812	1553- 2260	Soviet Physics-Semiconductors October 82, vol. 16, no. 10	1109- 1240	0493- 0624
American Journal of Physics March 83, vol. 51, no. 3	0193- 0288	2261- 2356	Soviet Physics-Uspekhi June 82, vol. 25, no. 6	0371- 0452	0625- 0706
CPM 8303C	Page	Frame	Optics and Spectroscopy July 82, vol. 53, no. 1	0001- 0114	0707- 0820
Optics Letters March 83, vol. 8, no. 3	0133- 0198	0001- 0066	Soviet Journal of Plasma Physics July 82, vol. 8, no. 4	0369- 0504	0820- 0956
Physics of Fluids March 83, vol. 26, no. 3	0601- 0870	0067- 0336	Soviet Technical Physics Letters July 82, vol. 8, no. 7	0333- 0388	0957- 1012
Journal of the Acoustical Society of America March 83, vol. 73, no. 3	0725- 1104	0337- 0716			

***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 appears here in CPM on the frames immediately following the appropriate articles:

B. F. Jones, Astron. Journ., Vol. 88, No. 2 (February 1983) p. 0215 (61 pgs., 1 fiche)

Current Physics Microform

April
1983

Monthly Table of Contents

CPM 8304A	Page	Frame
Applied Physics Letters 1 April 83, vol. 42, no. 7	0551- 0630	0001- 0080
Journal of Chemical Physics 15 March 83, vol. 78, no. 6	2813- 3348	0081- 0616
Journal of Physical and Chemical Reference Data October 83, vol. 11, no. 4	1005- 1196	0617- 0808
Physical Review A March 83, vol. 27, no. 3	1275- 1750	0809 1284
Physical Review B 1 March 83, vol. 27, no. 5	2625- 3132	1285- 1792
Physical Review D 15 March 83, vol. 27, no. 6	1209- 1416	1793- 2000

CPM 8304B	Page	Frame
Physical Review C March 83, vol. 27, no. 3	0917- 1374	0001- 0458
Optics News March 83, vol. 9, no. 2	0001- 0032	0459- 0490
Physical Review Letters 21 March 83, vol. 50, no. 12	0867- 0934	0491- 0558
*Astronomical Journal March 83, vol. 88, no. 3	0245- 0476	0559- 0790
Journal of Chemical Physics 1 April 83, vol. 78, no. 7	4315- 4796	0791- 1272
*Journal of Chemical Physics January 83, Suppl., vol. 78, no. 6	3349- 4314	1273- 2238

CPM 8304C	Page	Frame
Physical Review Letters 28 March 83, vol. 50, no. 13	0935- 1022	0001- 0088
Physical Review B 15 March 83, vol. 27, no. 6	3133- 3948	0089- 0904
Physics Teachers April 83, vol. 21, no. 4	0209- 0276	0905- 0972
Journal of Applied Physics April 83, vol. 54, no. 4	1651- 2136	0973- 1458
Applied Optics 1 April 83, vol. 21, no. 7	0953- 1120	1459- 1626
Journal of the Optical Society of America April 83, vol. 73, no. 4	0417- 0520	1627- 1730
Physical Review D 1 April 83, vol. 27, no. 7	1417- 1688	1731- 2062

CPM 8304D	Page	Frame
Physical Review A April 83, vol. 27, no. 4	1751- 2276	0001- 0526
*Astronomical Journal April 83, vol. 88, no. 3	0289- 0384	0527- 0622
Journal of the Acoustical Society April 83, vol. 73, no. 4	1105- 1420	0623- 0938
Physics of Fluids April 83, vol. 26, no. 4	0871- 1156	0939- 1224
Review of Scientific Instruments April 83, vol. 54, no. 4	0403- 0530	1225- 1352
Applied Physics Letters 15 April 83, vol. 42, no. 8	0631- 0758	1353- 1480
Journal of Chemical Physics 15 April 83, vol. 78, no. 8	4797- 5286	1481- 1970
Physical Review Letters 4 April 83, vol. 50, no. 14	1023- 1094	1971- 2042

CPM 8304E	Page	Frame
Applied Optics 15 March 83, vol. 22, no. 6	0761- 0952	0001- 0192
American Journal of Physics April 82, vol. 51, no. 4	0289- 0384	0193- 0288
Optics Letters April 83, vol. 8, no. 4	0199- 0240	0289- 0330
*Physical Review B 1 April 83, vol. 27, no. 7	3949- 4534	0331- 0916
Physics Teacher March 83, vol. 21, no. 3	0141- 0208	0917- 0984
Journal of Mathematical Physics April 83, vol. 24, no. 4	0729- 1014	0985- 1270
Physical Review Letters 11 March 83, vol. 50, no. 15	1095- 1174	1271- 1350
Review of Modern Physics March 83, vol. 55, no. 2	0331- 0582	1351- 1602
*Physical Review C April 83, vol. 27, no. 4	1375- 1836	1603- 2064

CPM 8304F	Page	Frame
AIP Conference Proceedings 83, no. 96	0001- 0446	0001- 0446
AIP Conference Proceedings 83, no. 97	0001- 0444	0447- 0890
Journal of the Acoustical Society of America Suppl. 1, vol. 73	S100- S120	0891- 1010
Physics Today April 83, vol. 36, no. 4	0001- 0112	1011- 1122

CPM 8304X	Page	Frame			
			Soviet Journal of Quantum Electronics October 82, vol. 12, no. 10	1265- 1376	0969- 1080
Soviet Physics-Technical Physics September 82, vol. 27, no. 9	1047- 1172	0001- 0126	Soviet Physics-Solid State September 82, vol. 24, no. 9	1445- 1632	1081- 1268
Soviet Technical Physics Letters August 82, vol. 8, no. 8	0389- 0440	0127- 0178	Soviet Physics-Semiconductors November 82, vol. 16, no. 11	1241- 1352	1269- 1380
Soviet Journal of Nuclear Physics June 82, vol. 35, no. 6	0793- 0954	0179- 0340	JETP Letters 20 September 82, vol. 36, no. 6	0223- 0280	1381- 1438
Soviet Journal of Quantum Electronics September 82, vol. 12, no. 9	1127- 1264	0341- 0478	Soviet Journal of Nuclear Physics July 82, vol. 36, no. 1	0001- 0058	1439- 1496
JETP Letters 5 September 82, vol. 36, no. 5	0175- 0222	0479- 0526	Soviet Physics-Solid State October 82, vol. 24, no. 10	1633- 1816	1497- 1680
Soviet Journal of Optical Technology July 83, vol. 49, no. 7	0401- 0468	0527- 0594	Soviet Journal of Optical Technology August 82, vol. 49, no. 8	0469- 0534	1681- 1740
Soviet Physics Technical Physics October 82, vol. 27, no. 10	1173- 1310	0595- 0732	Optics and Spectroscopy September 82, vol. 53, no. 3	0227- 0346	1741- 1860
Soviet Physics-Crystallography September 82, vol. 27, no. 5	0503- 0626	0733- 0856	Soviet Physics-Uspekhi July 82, vol. 25, no. 7	0453- 0540	1861- 1948
Optics and Spectroscopy August 82, vol. 53, no. 2	0115- 0226	0857- 0968	Soviet Astronomy Letters July 82, vol. 8, no. 4	0209- 0276	1949- 2016

*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 appears here in CPM on the frames immediately following the appropriate articles:

U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 11, No. 4 (October 1982) p. 1065 (26 pgs., 1 fiche)

*P. Hodge, Astron. J., Vol. 88, No. 3 (March 1983) p. 0296 (300 pgs., x fiche)

J. Bernheim *et al.*, J. Chem. Phys., Flygare Memorial, Vol. 78, No. 6 (January 1983) p. 3635 (47 pgs., 1 fiche)

H. Eichorn *et al.*, Astron. J., Vol. 88, No. 4 (April 1983) p. 0546 (341 pgs., 4 fiche)

P. Rudra and M. K. Sikdar, Phys. Rev. D, Vol. 27, No. 7 (1 April 1983) p. 5660 (3 pgs., 1 fiche)

* Photocopies and fiche are not available at the present time, further information will be published as soon as possible.

Current Physics Microform

May
1983

Monthly Table of Contents

CPM 8305A	Page	Frame
Applied Physics Letters 1 May 83, vol. 42, no. 9	0759- 0844	0001- 0086
Journal of Chemical Physics 1 May 83, vol. 78, no. 9	5287- 5846	0087- 0646
Physical Review Letters 18 April 83, vol. 50, no. 16	1175- 1222	0647- 0694
Physical Review D 15 April 83, vol. 27, no. 8	1689- 1976	0695- 0982
Applied Optics 15 April 83, vol. 22, no. 8	1121- 1256	0983- 1118
American Journal of Physics May 83, vol. 51, no. 5	0385- 0480	1119- 1214
Medical Physics March 83, vol. 10, no. 2	0135- 0274	1215- 1354
Physical Review B 15 April 83, vol. 27, no. 8	4535- 5216	1355- 2036

CPM 8305B	Page	Frame
Optics Letters May 83, vol. 8, no. 5	0241- 0294	0001- 0054
Physical Review Letters 25 April 83, vol. 50, no. 17	1223- 1334	0055- 0166
AIP Conference Proceedings No. 98, 83	0001- 0418	0167- 0584
Bulletin of the American Astronomical Society 83, vol. 15, no. 1	0001- 0622	0585- 1206
Physics Teacher May 83, vol. 21, no. 5	0277- 0344	1207- 1274
Journal of the Optical Society of America May 83, vol. 73, no. 5	0521- 0728	1275- 1428
Physical Review Letters 2 May 83, vol. 50, no. 18	1335- 1406	1483- 1554
Applied Optics 1 May 83, vol. 22, no. 9	1257- 1416	1555- 1714
Physical Review D 1 May 83, vol. 27, no. 9	1977- 2248	1715- 1986

CPM 8305C	Page	Frame
Physical Review A May 83, vol. 27, no. 5	2277- 2782	0001- 0506
Applied Physics Letters 15 May 83, vol. 42, no. 10	0845- 0918	0507- 0580
Journal of Applied Physics May 83, vol. 54, no. 5	2137- 2894	0581- 1338

Journal of the Acoustical Society of America May 83, vol. 73, no. 5	1421- 1896	1339- 1814
Journal of Chemical Physics 15 May 83, vol. 78, no. 10	5847- 6346	1815- 2314
CPM 8305D	Page	Frame
Journal of Mathematical Physics May 83, vol. 24, no. 5	1015- 1362	0001- 0348
Physics of Fluids May 83, vol. 26, no. 5	1157- 1378	0349- 0570
Journal of Physical and Chemical Reference Data January 83, vol. 12, no. 1	0001- 0162	0571- 0732
Astronomical Journal May 83, vol. 88, no. 5	0577- 0696	0733- 0852
Applied Physics Letters 1 June 83, vol. 42, no. 11	0919- 0996	0853- 0930
Journal of Chemical Physics 1 June 83, vol. 78, no. 11	6347- 7018	0931- 1602
Review of Scientific Instruments May 83, vol. 54, no. 5	0531- 0664	1603- 1736
Physical Review Letters 9 May 83, vol. 50, no. 9	1407- 1534	1737- 1864

CPM 8305X	Page	Frame
Soviet Physics-Semiconductors December 82, vol. 16, no. 12	1353- 1530	0001- 0178
Soviet Physics-Technical Physics November 82, vol. 27, no. 11	1311- 1432	0179- 0300
Soviet Technical Physics Letters September 82, vol. 8, no. 9	0441- 0494	0301- 0354
Soviet Physics JETP August 82, vol. 56, no. 2	0243- 0476	0355- 0588
Soviet Physics Doklady August 82, vol. 27, no. 8	0583- 0658	0589- 0664
Soviet Astronomy July 82, vol. 26, no. 4	0383- 0504	0665- 0786
Soviet Journal of Nuclear Physics August 82, vol. 36, no. 2	0159- 0324	0787- 0952
Soviet Journal of Plasma Physics March 83, vol. 8, no. 2	0125- 0242	0953- 1070
Soviet Journal of Quantum Electronics November 82, vol. 12, no. 11	1377- 1536	1071- 1230
Soviet Journal of Low Temperature Physics August 1982, vol. 8, no. 8	0393- 0452	1231- 1290
Soviet Physics-Solid State November 82, vol. 24, no. 11	1817- 2006	1291- 1480
JETP Letters 5 October 82, vol. 36, no. 7	0281- 0338	1481- 1538

*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 appears here in CPM on the frames immediately following the appropriate articles:

- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 29 (32 pgs., 1 fiche).
- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 91 (7 pgs., 1 fiche).
- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 65 (19 pgs. 1 fiche).
- J. Gallagher *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 109 (108 pgs., 2 fiche).

Per Index QC 1.C 82

Current Physics Microform

Monthly Table of Contents

June
1983

CPM 8306A	Page	Frame
Physics Today May 83, vol. 36, no. 5	0001– 0128	0001– 0128
Physical Review Letters 16 May 83, vol. 50, no. 20	1535– 1630	0129– 0224
Journal of Physical and Chemical Reference Data 82, Suppl. 2	0001– 0392	0225– 0616
Physical Review D 15 May 83, vol. 27, no. 10	2249– 2568	0617– 0936
*Physical Review B 1 May 83, vol. 27, no. 9	5217– 5900	0937– 1620
Physical Review C May 83, vol. 27, no. 5	1837– 2456	1621– 2240

CPM 8306B	Page	Frame
Applied Optics 15 May 83, vol. 22, no. 10	1417– 1600	0001– 0180
Optics Letters June 83, vol. 8, no. 6	0295– 0346	0181– 0232
Physical Review Letters 23 May 83, vol. 50, no. 21	1631– 1714	0233– 0316
*Journal of Chemical Physics 15 June 83, vol. 78, no. 12	7019– 7624	0317– 0922
Journal of Mathematical Physics June 83, vol. 24, no. 6	1363– 1680	0923– 1240
Medical Physics May 83, vol. 10, no. 3	0275– 0386	1241– 1352
Physical Review D 1 June 83, vol. 27, no. 11	2569– 2792	1353– 1576

CPM 8306C	Page	Frame
Physical Review B 15 May 83, vol. 27, no. 10	5901– 6586	0001– 0686
Journal of Vacuum Science and Technology—A Part I April 83, vol. 1, no. 2	0111– 0810	0687– 1386
Journal of Vacuum Science and Technology—A Part II April 83, vol. 1, no. 2	0811– 1350	1387– 1926
Physical Review Letters 30 May 83, vol. 50, no. 22	1715– 1826	1927– 2038
Optics News May 83, vol. 9, no. 3	0001– 0032	2039– 2170

CPM 8306D	Page	Frame
Journal of the Optical Society of America June 83, vol. 73, no. 6	0729– 0872	0001– 0144
American Journal of Physics June 83, vol. 51, no. 6	0481– 0576	0145– 0240
Applied Physics Letters 15 June 83, vol. 42, no. 12	0997– 1120	0241– 0364
Journal of Applied Physics June 83, vol. 54, no. 6	2895– 3650	0365– 1120
Physics of Fluids June 83, vol. 26, no. 6	1379– 1696	1121– 1438
Review of Scientific Instruments June 83, vol. 54, no. 6	0665– 0796	1439– 1570
Applied Optics 1 June 83, vol. 22, no. 11	1601– 1784	1571– 1754
Optics Letters June 83, vol. 8, no. 6	0295– 0346	1755– 1806
Astronomical Journal June 83, vol. 88, no. 6	0697– 0880	1807– 1990
Physical Review Letters 6 June 83, vol. 50, no. 23	1827– 1878	1991– 2042

CPM 8306E	Page	Frame
Journal of Chemical Physics 1 July 83, vol. 79, no. 1	0001– 0534	0001– 0534
AIP Conference Proceedings 83, No. 99	0001– 0284	0535– 0818
Physical Review Letters 13 June 83, vol. 50, no. 24	1879– 1958	0819– 0898
Physics Today June 83, vol. 36, no. 6	0001– 0128	0899– 1026
Physical Review A June 83, vol. 27, no. 6	2785– 3398	1027– 1640
Physical Review B 1 June 83, vol. 27, no. 11	6587– 7012	1641– 2066

CPM 8306X	Page	Frame
Soviet Journal of Optical Technology September 82, vol. 49, no. 9	0535– 0600	0001– 0066
JETP Letters 20 October 82, vol. 36, no. 8	0339– 0380	0067– 0180
JETP Letters 5 November, vol. 36, no. 9	0381– 0432	0109– 0160

Soviet Astronomy Letters	0277-	0161-
September 82, vol. 8, no. 5	0346	0230
Soviet Astronomy	0505-	0231-
September 82, vol. 26, no. 5	0630	0356
Soviet Physics-Technical Physics	1433-	0357-
December 82, vol. 27, no. 12	1582	0506
Soviet Physics-Solid State	2007-	0507-
December 82, vol. 24, no. 12	2230	0730
JETP Letters	0433-	0731-
20 November 82, vol. 36, no. 10	0458	0756
Soviet Physics-Uspekhi	0541-	0757-
August 82, vol. 25, no. 8	0638	0854
Soviet Journal of Optical Technology	0601-	0855-
October 82, vol. 49, no. 10	0666	0920
Soviet Journal of Quantum Electronics	1537-	0921-
December 82, vol. 12, no. 12	1750	1134
Soviet Physics-Semiconductors	0001-	1135-
January 83, vol. 17, no. 1	0124	1258
JETP Letters	0459-	1259-
5 December 83, vol. 36, no. 11	0502	1302
Soviet Journal of Particles and Nuclei	0387-	1303-
September 82, vol. 13, no. 5	0482	1398
Soviet Physics-Crystallography	0627-	1399-
November 82, vol. 27, no. 6	0762	1534
Soviet Physics-Doklady	0659-	1535-
September 82, vol. 27, no. 9	0772	1648
Soviet Journal of Nuclear Physics	0325-	1649-
September 82, vol. 36, no. 3	0478	1802
Optics and Spectroscopy	0347-	1803-
October 82, vol. 53, no. 4	0462	1918

*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 appears here in CPM on the frames immediately following the appropriate articles:

- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 29 (32 pgs., 1 fiche).
- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 91 (7 pgs., 1 fiche).
- U. Gaur *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 65 (19 pgs., 1 fiche).
- J. Gallagher *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 1 (January 1983) p. 109 (108 pgs., 2 fiche).
- C. Svensson *et al.*, J. Chem. Phys. Vol. 78, No. 12 (15 June 1983) p. 7343 (147 pgs., 2 fiche).
- A. Jin and L. S. Bartell, J. Chem. Phys. Vol. 78, No. 12 (15 June 1983) p. 7165 (9 pgs., 1 fiche).
- E. Sanvold, Phys. Rev. B, Vol. 27, No. 9 (1 May 1983) p. 5660 (3 pgs., 1 fiche).

Monthly Table of Contents

July
1983

CPM 8307A	Page	Frame
Journal of the Acoustical Society of America 83, vol. 73, supplement no. 2	0001-0428	0001-0428
Journal of the Acoustical Society of America June 83, vol. 73, no. 6	1897-2340	0429-0822
Physical Review Letters 20 June 83, vol. 50, no. 25	1959-2038	0823-0902
Bulletin of the American Astronomical Society 83, vol. 15, no. 2	0623-0786	0903-1066
*Physical Review C June 83, vol. 27, no. 6	2457-3028	1067-1638
Medical Physics July 83, vol. 10, no. 4	0387-0570	1639-1822
Astronomical Journal June 83, vol. 88, no. 6	0697-0880	1823-2006

CPM 8307B	Page	Frame
Applied Optics 15 June 83, vol. 22, no. 12	1785-1944	0001-0160
Journal of Vacuum Science and Technology B April 83, vol. 1, no. 2	0119-0518	0161-0560
Journal of the Optical Society of America July 83, vol. 73, no. 7	0873-0976	0561-0664
Applied Physics Letters 1 July 83, vol. 43, no. 1	0001-0130	0665-0794
Journal of Applied Physics July 83, vol. 54, no. 7	3651-4250	0795-1394
Journal of Mathematical Physics July 83, vol. 24, no. 7	1681-1934	1395-1648
Physics of Fluids July 83, vol. 26, no. 7	1697-2032	1649-1984

CPM 8307C	Page	Frame
Review of Scientific Instruments July 83, vol. 54, no. 7	0797-0920	0001-0124
Physical Review B 15 June 83, vol. 27, no. 12	7013-7872	0125-0984
Applied Optics 1 July 83, vol. 22, no. 13	1945-2056	0985-1096
Physical Review Letters 27 June 83, vol. 50, no. 26	2039-2146	1097-1204
Bulletin of the American Physical Society May 83, vol. 28, no. 5	0831-0884	1205-1258

Physical Review D 15 June 83, vol. 27, no. 12	2793-3064	1259-1530
Optics Letters July 83, vol. 8, no. 7	0347-0418	1531-1602
Physical Review Letters 4 July 83, vol. 51, no. 1	0001-0066	1603-1668
Physical Review D 1 July 83, vol. 28, no. 1	0001-0264	1669-1932
Astronomical Journal July 83, vol. 88, no. 7	0881-1076	1933-2128
Reviews of Modern Physics July 83, vol. 55, no. 3	0583-0854	2129-2400

CPM 8307D	Page	Frame
American Journal of Physics July 83, vol. 51, no. 7	0577-0672	0001-0096
Journal of the Acoustical Society of America July 83, vol. 74, no. 1	0001-0392	0097-0488
Journal of Chemical Physics 15 July 83, vol. 79, no. 2	0535-1104	0489-1058
AIP Conference Proceedings 83, no. 100	0001-0354	1059-1412
Physical Review Letters 11 July 83, vol. 51, no. 2	0067-0144	1413-1490
Physics Today July 83, vol. 36, no. 7	0001-0120	1491-1610
Physical Review D 15 July 83, vol. 28, no. 2	0265-0422	1611-1768

CPM 8307X	Page	Frame
Soviet Journal of Plasma Physics September 82, vol. 8, no. 5	0505-0634	0001-0130
JETP Letters 20 December 82, vol. 36, no. 12	0503-0594	0131-0222
Soviet Journal of Quantum Electronics January 83, vol. 13, no. 1	0001-0124	0223-0346
Soviet Technical Physics Letters October 82, vol. 8, no. 10	0495-0550	0347-0402
Soviet Physics-Uspekhi September 82, vol. 25, no. 9	0639-0712	0403-0476
Optics and Spectroscopy November 82, vol. 53, no. 5	0463-0578	0477-0592
Soviet Physics-JETP September 82, vol. 56, no. 3	0477-0704	0593-0820
Soviet Journal of Nuclear Physics October 82, vol. 36, no. 4	0479-0626	0821-0968

Current Physics Microform

Monthly Table of Contents

RECEIVED

SEP - 2 1983

August
1983

CPM 8308A	Page	Frame
Physical Review Letters 18 July 83, vol. 51, no. 3	0145- 0232	0001- 0088
Applied Physics Letters 15 July 83, vol. 43, no. 2	0131- 0216	0089- 0174
Applied Optics 15 July 83, vol. 22, no. 14	2057- 2232	0175- 0350
*Physical Review A July 83, vol. 28, no. 1	0001- 0516	0351- 0866
Physical Review B 1 July 83, vol. 28, no. 1	0001- 0464	0867- 1330
Physical Review C July 83, vol. 28, no. 1	0001- 0474	1331- 1804
*Journal of Physical and Chemical Reference Data April 83, vol. 12, no. 2	0163- 0412	1805- 2054

CPM 8308B	Page	Frame
Journal of the Optical Society of America August 83, vol. 73, no. 8	0977- 1096	0001- 0120
*Journal of Chemical Physics 1 August 83, vol. 79, no. 3	1105- 1558	0121- 0574
Applied Physics Letters 1 August 83, vol. 43, no. 3	0217- 0326	0575- 0684
Applied Physics Letters 15 August 83, vol. 43, no. 4	0327- 0400	0685- 0758
Journal of Applied Physics August 83, vol. 54, no. 8	4251- 4702	0759- 1210
Journal of Chemical Physics 15 August 83, vol. 79, no. 4	1559- 2102	1211- 1754
Journal of Mathematical Physics August 83, vol. 24, no. 8	1935- 2252	1755- 2072

CPM 8308C	Page	Frame
Journal of Vacuum Science and Technology-B July 83, vol. 1, no. 8	0519- 0864 0864	0001- 0346 0346
Physics of Fluids August 83, vol. 26, no. 3	2033- 2334	0347- 0678
Physical Review B 15 July 83, vol. 28, no. 2	0465- 1200	0679- 1414
Physical Review Letters 25 July 83, vol. 51, no. 4	0233- 0326	1415- 1508
AIP Conference Proceedings 83, no. 101	0001- 0448	1509- 1956
Optics Letters August 83, vol. 8, no. 8	0419- 0464	1957- 2002
Optics News July 83, vol. 9, no. 4	0001- 0032	2003- 2034

CPM 8308D	Page	Frame
Physical Review A August 83, vol. 28, no. 2	0517- 1216	0001- 0700
Physical Review Letters 1 August 83, vol. 51, no. 5	0327- 0434	0701- 0808
Optics Letters August 83, vol. 8, no. 8	0419- 0464	0809- 0854
Astronomical Journal August 83, vol. 88, no. 8	1077- 1284	0855- 1062
Journal of the Acoustical Society of America August 83, vol. 74, no. 2	0393- 0676	1063- 1346
Review of Scientific Instruments August 83, vol. 54, no. 8	0921- 1076	1347- 1502
Physical Review D 1 August 83, vol. 28, no. 3	0423- 0678	1503- 1758
Applied Optics 1 August 83, vol. 22, no. 15	2233- 2392	1759- 1918
Bulletin of the American Physical Society July 83, vol. 28, no. 6	0885- 0958	1919- 1992

CPM 8308E	Page	Frame
Physical Review Letters 8 August 83, vol. 51, no. 6	0435- 0522	0001- 0088
*Physical Review B 1 August 83, vol. 28, no. 3	1201- 1662	0089- 0550
Physics Today August 83, vol. 36, no. 8	0001- 0104	0551- 0654
American Journal of Physics August 83, vol. 51, no. 8	0673- 0768	0655- 0750
Physical Review Letters 15 August 83, vol. 51, no. 7	0523- 0616	0751- 0844

CPM 8308X	Page	Frame
Soviet Physics-Semiconductors February 83, vol. 17, no. 2	0125- 0238	0001- 0114
JETP Letters 5 February 83, vol. 37, no. 3	0155- 0204	0115- 0164
Soviet Astronomy Letters January 83, vol. 9, no. 1	0001- 0070	0165- 0234
JETP Letters 20 February 83, vol. 37, no. 4	0205- 0236	0235- 0266
Soviet Physics-Acoustics January 83, vol. 29, no. 1	0001- 0076	0267- 0342
Soviet Journal of Low Temperature Physics November 82, vol. 8, no. 11	0567- 0624	0343- 0400

JETP Letters	0077-	0401-
20 January 83, vol. 37, no. 2	0154	0478
Soviet Journal of Quantum Electronics	0125-	0479-
February 83, vol. 13, no. 2	0270	0624
JETP Letters	0237-	0625-
5 March 83, vol. 37, no. 5	0302	0690
Soviet Physics-Uspekhi	0713-	0691-
October 82, vol. 25, no. 10	0780	0758
Soviet Journal of Plasma Physics	0635-	0759-
November 82, vol. 8, no. 6	0774	0898
Optics and Spectroscopy	0001-	0899-
January 83, vol. 54, no. 1	0110	1008
Soviet Physics-Doklady	0893-	1009-
November 82, vol. 27, no. 11	0990	1106
Chinese Physics	0001-	1107-
January 83, vol. 3, no. 1	0274	1380
Chinese Physics	0275-	1381-
April 83, vol. 3, no. 2	0546	1652
JETP Letters	0303-	1653-
20 March 83, vol. 37, no. 6	0350	1700

***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 appears here in CPM on the frames immediately following the appropriate articles:

- C. Y. Ho *et al.*, J. Phys. Chem. Ref. Data, Vol. 12, No. 3 (April 1983) p. 183 (199 pgs., 3 fiche).
J. Hall *et al.*, Phys. Rev. A, Vol. 28, No. 1 (July 1983) p. 99 (16 pgs., 1 fiche).
B. B. Craig *et al.*, J. Chem. Phys., Vol. 79, No. 3 (1 August 1983) p. 1286 (2 pgs., 1 fiche).
M. Trkular and R. Harris, J. Chem. Phys., Vol. 79, No. 3 (1 August 1983) p. 1138 (11 pgs., 1 fiche).
S. Thanos and A. K. Theophilio, Phys. Rev. B, Vol. 28, No. 3 (1 August 1983) p. 1544 (26 pgs., 1 fiche).
H. F. Braun *et al.*, Phys. Rev. B, Vol. 28, No. 3 (1 August 1983) p. 1389 (9 pgs., 1 fiche).

Monthly Table of Contents

CPM 8309A	Page	Frame
Physical Review D 15 August 83, vol. 28, no. 4	0679- 1044	0001- 0366
Physical Review B 15 August 83, vol. 28, no. 4	1663- 2316	0367- 1020
Applied Optics 15 August 83, vol. 22, no. 16	2393- 2504	1021- 1132
Astronomical Journal September 83, vol. 88, no. 9	1285- 1434	1133- 1282
Applied Physics Letters 1 September 83, vol. 43, no. 5	0401- 0516	1283- 1398
*Journal of Chemical Physics 1 September 83, vol. 79, no. 5	2103- 2498	1399- 1794
Physics of Fluids September 83, vol. 26, no. 9	2335- 2762	1795- 2222
Physical Review Letters 22 August 83, vol. 51, no. 8	0617- 0718	2223- 2324

CPM 8309B	Page	Frame
Applied Physics Letters 15 September 83, vol. 43, no. 6	0517- 0618	0001- 0102
Review of Scientific Instruments September 83, vol. 54, no. 9	1077- 1272	0103- 0298
Physical Review D 1 September 83, vol. 28, no. 5	1045- 1234	0299- 0488
Physics Teacher September 83, vol. 21, no. 6	0345- 0420	0489- 0564
Physical Review Letters 29 August 83, vol. 51, no. 9	0719- 0846	0565- 0692
Physical Review A September 83, vol. 28, no. 3	1217- 1900	0693- 1376
American Journal of Physics September 83, vol. 51, no. 9	0769- 0864	1377- 1472
Journal of Applied Physics September 83, vol. 54, no. 9	4703- 5510	1473- 2280

CPM 8309C	Page	Frame
Journal of the Acoustical Society of America September 83, vol. 74, no. 3	0677- 1104	0001- 0428
Journal of Chemical Physics 15 September 83, vol. 79, no. 6	2499- 3174	0429- 1104
Journal of Mathematical Physics September 83, vol. 24, no. 9	2253- 2378	1105- 1230
Applied Physics Letters 1 October 83, vol. 43, no. 7	0619- 0710	1231- 1322
Journal of Vacuum Science and Technology-A July 83, vol. 1, no. 3	1351- 1794	1323- 1766
Physical Review C August 83, vol. 28, no. 2	0475- 0968	1767- 2260

CPM 8309D	Page	Frame
Optics News September 83, vol. 9, no. 5	0001- 0122	0001- 0122
Applied Optics 1 September 83, vol. 22, no. 17	2505- 2760	0123- 0378
Physical Review Letters 5 September 83, vol. 51, no. 10	0847- 0942	0379- 0474
Optics Letters September 83, vol. 8, no. 9	0465- 0510	0475- 0520
Journal of the Optical Society of America September 83, vol. 73, no. 9	1097- 1232	0521- 0656
Physics Today September 83, vol. 36, no. 9	0001- 0148	0657- 0804
Physical Review B 1 September 83, vol. 28, no. 5	2317- 2906	0805- 1394
Physical Review Letters 12 September 83, vol. 51, no. 11	0943- 1014	1395- 1466

CPM 8309X	Page	Frame
Soviet Physics-Crystallography January 83, vol. 28, no. 1	0001- 0122	0001- 0122
Soviet Journal of Nuclear Physics December 82, vol. 36, no. 6	0779- 0982	0123- 0326
Soviet Physics-JETP November 82, vol. 56, no. 5	0923- 1148	0327- 0552
Soviet Physics-Crystallography March 83, vol. 28, no. 2	0123- 0248	0553- 0678
Soviet Physics-Technical Physics February 83, vol. 28, no. 2	0131- 0262	0679- 0810
Soviet Physics-Semiconductors March 83, vol. 17, no. 3	0239- 0354	0811- 0926
Soviet Physics-Doklady December 82, vol. 27, no. 12	0991- 1126	0927- 1062
JETP Letters 5 April 83, vol. 37, no. 7	0351- 0404	1063- 1116
Soviet Technical Physics Letters November 82, vol. 8, no. 11	0551- 0604	1117- 1170
Soviet Physics-Solid State February 83, vol. 25, no. 2	0181- 0354	1171- 1344
Soviet Journal of Low Temperature Physics December 82, vol. 8, no. 12	0625- 0682	1345- 1402
Soviet Journal of Particles and Nuclei January 83, vol. 14, no. 1	0001- 0098	1403- 1500
Soviet Physics-Uspokhi November 82, vol. 25, no. 11	0781- 0864	1501- 1584

***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 appears here in CPM on the frames immediately following the appropriate articles:

A. Kvik *et al.*, J. Chem. Phys. Vol. 79, No. 5 (1 September 1983) p. 2356 (31 pgs., 1 fiche).

Monthly Table of Contents

CPM 8310A	Page	Frame
Physical Review C September 83, vol. 28, no. 3	0969- 1430	0001- 0462
Physical Review Letters 19 September 83, vol. 51, no. 12	1015- 1110	0463- 0558
Bulletin of the American Physical Society September 83, vol. 28, no. 7	0959- 1020	0559- 0620
Physical Review B 15 September 83, vol. 28, no. 6	2907- 3672	0621- 1386
Physical Review D 15 September 83, vol. 28, no. 6	1235- 1568	1387- 1720
American Journal of Physics October 83, vol. 51, no. 10	0856- 0960	1721- 1816
Applied Physics Letters 15 October 83, vol. 43, no. 8	0711- 0806	1817- 1912
Journal of the Acoustical Society of America October 83, vol. 74, no. 4	1105- 1324	1913- 2132

CPM 8310B	Page	Frame
*Journal of Chemical Physics 1 October 83, vol. 79, no. 7	3175- 3608	0001- 0434
Journal of Physical and Chemical Reference Data July 83, vol. 12, no. 3	0413- 0828	0435- 0850
AIP Conference Proceedings 83, No. 102	0001- 0246	0851- 1096
Physical Review Letters 26 September 83, vol. 51, no. 13	1111- 1222	1097- 1208
Physical Review D 1 October 83, vol. 28, no. 7	1569- 1808	1209- 1448
Astronomical Journal October 83, vol. 88, no. 10	1435- 1568	1449- 1582
Journal of Applied Physics October 83, vol. 54, no. 10	5511- 6078	1583- 2150

CPM 8310C	Page	Frame
*Journal of Chemical Physics 15 October 83, vol. 79, no. 8	3609- 4090	0001- 0482
Journal of Mathematical Physics October 83, vol. 24, no. 10	2379- 2536	0483- 0640
Medical Physics September 83, vol. 10, no. 5	0571- 0740	0641- 0810
Physics of Fluids October 83, vol. 54, no. 10	2763- 3158	0811- 1206
*Review of Scientific Instruments October 83, vol. 54, no. 10	1273- 1440	1207- 1374

Physics Teacher October 83, vol. 21, no. 7	0421- 0488	1375- 1442
Physical Review Letters 3 October 83, vol. 51, no. 14	1223- 1308	1443- 1528
Bulletin of the American Physical Society October 83, vol. 28, no. 8	1021- 1298	1529- 1806
Optics Letters October 83, vol. 8, no. 10	0511- 0550	1807- 1846
Applied Physics Letters 1 November 83, vol. 43, no. 9	0807- 0888	1847- 1928
Physics Today October 83, vol. 36, no. 10	0001- 0152	1929- 2080

CPM 8310D	Page	Frame
Journal of the Optical Society of America October 83, vol. 73, no. 10	1233- 1408	0001- 0176
Applied Optics 1 October 83, vol. 22, no. 19	2937- 3136	0177- 0376
Physical Review A October 83, vol. 28, no. 4	1901- 2602	0377- 1078
Optics Letters October 83, vol. 8, no. 10	0511- 0550	1079- 1118
AIP Conference Proceedings 83, No. 103	0001- 0494	1119- 1612
AIP Conference Proceedings 83, No. 104	0001- 0372	1613- 1984
Physical Review B 1 October 83, vol. 28, no. 7	3673- 4074	1985- 2386

CPM 8310X	Page	Frame
Soviet Physics-Solid State March 83, vol. 25, no. 3	0355- 0552	0001- 0198
Soviet Physics-Doklady January 83, vol. 28, no. 1	0001- 0086	0199- 0284
Soviet Journal of Quantum Electronics March 83, vol. 13, no. 3	0271- 0416	0285- 0430
Soviet Technical Physics Letters December 82, vol. 8, no. 12	0605- 0722	0431- 0548
Soviet Physics-Uspekhi December 82, vol. 25, no. 12	0865- 0954	0549- 0638
Soviet Journal of Nuclear Physics January 83, vol. 37, no. 1	0001- 0152	0639- 0790
Soviet Journal of Low Temperature Physics January 83, vol. 9, no. 1	0001- 0056	0791- 0846
Soviet Physics-Technical Physics March 83, vol. 28, no. 3	0263- 0386	0847- 0970

Soviet Physics-JETP	1149-	0971-
December 82, vol. 56, no. 6	1426	1248
Soviet Technical Physics Letters	0001-	1249-
January 83, vol. 9, no. 1	0056	1304
Soviet Journal of Plasma Physics	0001-	1305-
January 83, vol. 9, no. 1	0132	1304
Soviet Astronomy	0001-	1305-
January 83, vol. 27, no. 1	0118	1436
Soviet Physics-Acoustics	0077-	1555-
March 83, vol. 29, no. 2	0168	1646
Soviet Journal of Optical	0001-	1647-
Technology	0064	1710
January 83, vol. 50, no. 1		
Optics and Spectroscopy	0111-	1711-
February 83, vol. 54, no. 2	0226	1826
Soviet Physics-Semiconductors	0355-	1827-
April 83, vol. 17, no. 4	0480	1952

***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 appears here in CPM on the frames immediately following the appropriate articles:

- A. Kvik et al., J. Chem. Phys. Vol. 79, No. 5 (1 September 1983) p. 2356 (31 pgs., 1 fiche).
- M. G. Wisnosky et al., J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3505 (2 pgs., 1 fiche).
- R. Mawhorter et al., J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3292 (71 pgs., 1 fiche).
- R. Lippman and R. Rudman, J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3457 (14 pgs., 1 fiche).
- D. Gundel et al., J. Chem. Phys., Vol. 79, No. 8 (15 October 1983) p. 3678 (8 pgs., 1 fiche).
- B. L. Henke et al., Rev. Sci. Instrum. Vol. 54, No. 10 (October 1983) p. 1311 (5 pgs., 1 fiche).

Monthly Table of Contents

CPM 8311A	Page	Frame
Physical Review Letters 10 October 83, vol. 51, no. 15	1309- 1396	0001- 0088
Bulletin of the American Astronomical Society 83, vol. 15, no. 3	0787- 0882	0089- 0184
Journal of the Acoustical Society of America 83, Suppl. 1, vol. 74	S0001- S0144	0185- 0328
Applied Optics 15 October 83, vol. 22, no. 20	3137- 3304	0329- 0496
*Physical Review C October 83, vol. 28, no. 4	1431- 1868	0497- 0934
Physical Review Letters 17 October 83, vol. 51, no. 16	1397- 1500	0935- 1038
Reviews of Modern Physics October 83, vol. 55, no. 4	0855- 1062	1039- 1246
Bulletin of the American Physical Society November 83, vol. 28, no. 8	1299- 1430	1247- 1378
Physical Review B 15 October 83, vol. 28, no. 8	4075- 4918	1379- 2222

CPM 8311B	Page	Frame
*Journal of Chemical Physics 1 November 83, vol. 79, no. 9	4091- 4654	0001- 0564
American Journal of Physics November 83, vol. 51, no. 11	0961- 1056	0565- 0660
*Astronomical Journal November 83, vol. 88, no. 11	1569- 1694	0661- 0786
Physics of Fluids November 83, vol. 26, no. 11	3159- 3444	0787- 1072
Physical Review D 15 October 83, vol. 28, no. 8	1809- 2128	1073- 1392
Physical Review Letters 24 October 83, vol. 51, no. 17	1501- 1604	1393- 1496
Physical Review D 1 November 83, vol. 28, no. 9	2129- 2352	1497- 1720
Physical Review Letters 31 October 83, vol. 51, no. 18	1605- 1724	1721- 1840
Optics Letters November 83, vol. 8, no. 11	0551- 0598	1841- 1888
Journal of Chemical Physics 15 November 83, vol. 79, no. 10	4655- 5212	1889- 2446

CPM 8311C	Page	Frame
Applied Physics Letters 15 November 83, vol. 43, no. 10	0889- 0984	0001- 0096
Journal of Mathematical Physics November 83, vol. 24, no. 11	2537- 2694	0097- 0254

Journal of the Optical Society of America November 83, vol. 73, no. 11	1409- 1616	0255- 0462
Applied Optics 1 November 83, vol. 22, no. 21	3305- 3464	0463- 0622
Physics Teacher November 83, vol. 21, no. 8	0489- 0564	0623- 0698
*Physical Review A November 83, vol. 28, no. 5	2603- 3168	0699- 1264
Physical Review Letters 7 November 83, vol. 51, no. 19	1725- 1814	1265- 1354
Physics Today November 83, vol. 36, no. 11	0001- 0154	1355- 1508
Physical Review C November 83, vol. 28, no. 5	1869- 2198	1509- 1838
Physical Review B 1 November 83, vol. 28, no. 9	4913- 5392	1839- 2318

CPM 8311D	Page	Frame
Optics News November 83, vol. 9, no. 6	0003- 0046	0001- 0045
Physical Review Letters 14 November 83, vol. 51, no. 20	1815- 1926	0046- 0156
Review of Scientific Instruments November 83, vol. 54, no. 11	1441- 1604	0157- 0320

CPM 8311X	Page	Frame
Soviet Journal of Nuclear Physics February 83, vol. 37, no. 2	0153- 0099	0001- 0162
Soviet Journal of Particles and Nuclei March 83, vol. 14, no. 2	0099- 0200	0163- 0264
JETP Letters 20 April 83, vol. 37, no. 8	0405- 0492	0265- 0352
Soviet Journal of Low Temperature Physics February 83, vol. 9, no. 2	0057- 0112	0353- 0408
Soviet Astronomy Letters March 83, vol. 9, no. 2	0071- 0138	0409- 0476
Soviet Journal of Nuclear Physics March 83, vol. 37, no. 3	0315- 0476	0477- 0638
Soviet Journal of Quantum Electronics April 83, vol. 13, no. 4	0417- 0564	0639- 0786
JETP Letters 5 May 83, vol. 37, no. 9	0493- 0534	0787- 0828
Soviet Physics-JETP January 82, vol. 57, no. 1	0001- 0250	0829- 1078
Soviet Physics-Doklady February 83, vol. 28, no. 2	0087- 0198	1079- 1190

Soviet Physics-Solid State	0553-	1191-
April 83, vol. 25, no. 4	0726	1364
Soviet Journal of Optical	0065-	1365-
Technology	0132	1432
February 83, vol. 50, no. 2		
Optics and Spectroscopy	0227-	1433-
March 83, vol. 54, no. 3	0342	1548
JETP Letters	0535-	1549-
20 May 83, vol. 37, no. 10	0614	1628
Soviet Physics-Semiconductors	0481-	1629-
May 83, vol. 17, no. 5	0610	1758
Soviet Physics-Doklady	0199-	1759-
March 83, vol. 28, no. 3	0300	1860
Soviet Astronomy	0119-	1861-
March 83, vol. 27, no. 2	0242	1984

*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 appears here in CPM on the frames immediately following the appropriate articles:

- A. Kvik et al., J. Chem. Phys. Vol. 79, No. 5 (1 September 1983) p. 2356 (31 pgs., 1 fiche).
- M. G. Wisnosky et al., J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3505 (2 pgs., 1 fiche).
- R. Mawhorter et al., J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3292 (71 pgs., 1 fiche).
- R. Lippman and R. Rudman, J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3457 (14 pgs., 1 fiche).
- D. Gundel et al., J. Chem. Phys., Vol. 79, No. 8 (15 October 1983) p. 3678 (8 pgs., 1 fiche).
- B. L. Henke et al., Rev. Sci. Instrum. Vol. 54, No. 10 (October 1983) p. 1311 (5 pgs., 1 fiche).
- T. Rupp et al., Phys. Rev. C, Vol. 28, No. 4 (October 1983) p. 1696 (18 pgs., 1 fiche).
- Z. Jiang et al., Astron. J., Vol. 88, No. 11 (November 1983) p. 1679 (4 pgs., 1 fiche).
- R. Paulsson, J. Chem. Phys., Vol. 79, No. 9 (1 November 1983) p. 4346 (20 pgs., 1 fiche).
- F. J. Rogers et al., Phys. Rev. A., Vol. 28, No. 5 (November 1983) p. 2990 (15 pgs., 1 fiche).

Per Index DC 1.082

Monthly Table of Contents

CPM 8312A	Page	Frame
Journal of Vacuum Science and Technology-A October 83, vol. 1, no. 4	1795- 1968	0001- 0174
Journal of Applied Physics November 83, vol. 54, no. 11	6079- 6810	0175- 0906
Applied Optics 15 November 83, vol. 22, no. 22	3465- 3656	0907- 1098
Journal of the Acoustical Society of America November 83, vol. 74, no. 5	1325- 1672	1099- 1446
Physical Review D 15 November 83, vol. 28, no. 10	2353- 2704	1447- 1798
Physical Review D 1 December 83, vol. 28, no. 11	2705- 2928	1799- 2022
Physical Review Letters 21 November 83, vol. 51, no. 21	1927- 2020	2023- 2116

CPM 8312B	Page	Frame
American Journal of Physics December 83, vol. 51, no. 12	1057- 1184	0001- 0128
Astronomical Journal December 83, vol. 88, no. 12	1695- 1890	0129- 0324
Applied Physics Letters 1 December 83, vol. 43, no. 11	0985- 1082	0325- 0422
Journal of Chemical Physics 1 December 83, vol. 79, no. 11	5213- 5734	0423- 0944
Physical Review B 15 November 83, vol. 28, no. 10	5393- 6182	0945- 1734
Applied Optics 15 September 83, vol. 22, no. 18	2761- 2936	1735- 1910
Medical Physics November 83, vol. 10, no. 6	0741- 0952	1911- 2122

CPM 8312C	Page	Frame
Physical Review Letters 28 November 83, vol. 51, no. 22	2021- 2068	0001- 0048
Applied Optics 1 December 83, vol. 22, no. 23	3657- 3912	0049- 0304
Applied Physics Letters 15 December 83, vol. 43, no. 12	1083- 2000	0305- 1222
Journal of Applied Physics December 83, vol. 54, no. 12	6811- 7208	1223- 1620
Journal of the Acoustical Society of America December 83, vol. 74, no. 6	1673- 2020	1621- 1968
Journal of Chemical Physics 15 December 83, vol. 79, no. 12	5735- 6358	1969- 2592

CPM 8312D	Page	Frame
Physics of Fluids December 83, vol. 26, no. 12	3445- 3714	0001- 0270
Physical Review Letters 5 December 83, vol. 51, no. 23	2069- 2156	0271- 0358
Physical Review A December 83, vol. 28, no. 6	3169- 3718	0359- 0908
Physics Teacher December 83, vol. 21, no. 9	0565- 0636	0909- 0980
Physical Review B 1 December 83, vol. 28, no. 11	6183- 6628	0981- 1426
AIP Conference Proceedings 83, no. 105	0001- 1102	1427- 2528

CPM 8312E	Page	Frame
Journal of Mathematical Physics December 83, vol. no.	2695- 2912	0001- 0218
Review of Scientific Instruments December 83, vol. no.	1605- 1852	0219- 0466
Journal of Vacuum Science and Technology-B October 83, vol. 1, no. 4	0865- 1450	0467- 1052
Bulletin of the American Physical Society December 83, vol. 28, no. 10	1431- 1810	1053- 1432
Physical Review Letters 12 December 83, vol. 51, no. 24	2157- 2234	1433- 1510
Physics Today December 83, vol. 36, no. 12	0001- 0120	1511- 1630

CPM 8312X	Page	Frame
Soviet Journal of Quantum Electronics May 83, vol. 13, no. 5	0565- 0686	0001- 0122
Soviet Physics-Acoustics May 83, vol. 29, no. 3	0169- 0248	0123- 0202
Soviet Physics-Semiconductors June 83, vol. 17, no. 6	0611- 0738	0203- 0330
Soviet Physics-Uspekhi January 83, vol. 26, no. 1	0099- 0098	0331- 0428
Soviet Physics-Doklady April 83, vol. 28, no. 4	0301- 0358	0429- 0486
Soviet Journal of Optical Technology March 83, vol. 50, no. 3	0133- 0200	0487- 0554
Soviet Physics-JETP February 83, vol. 57, no. 2	0251- 0482	0555- 0786
Soviet Journal of Nuclear Physics April 83, vol. 37, no. 4	0477- 0634	0787- 0944

JETP Letters	0615-	0945-
5 June 83, vol. 37, no. 11	0672	1002
JETP Letters	0673-	1003-
20 June 83, vol. 37, no. 12	0740	1070
Soviet Journal of Quantum Electronics	0687-	1071-
June 83, vol. 13, no. 6	0842	1226
Soviet Physics-Solid State	0727-	1227-
May 83, vol. 25, no. 5	0914	1414
Soviet Physics-Doklady	0359-	1415-
May 83, vol. 28, no. 5	0416	1472
Soviet Physics-Uspekhi	0099-	0331-
February 83, vol. 26, no. 2	0198	1572
Optics and Spectroscopy	0343-	1573-
April 83, vol. 54, no. 4	0450	1680
Chinese Physics	0547-	1681-
July 83, vol. 3, no. 3	0802	1936
Soviet Physics-JETP	0483-	1937-
March 83, vol. 57, no. 3	0704	2158

CPM 8311Y	Page	Frame
Soviet Journal of Particles and Nuclei	0201-	0001-
May 83, vol. 14, no. 3	0308	0108
JETP Letters	0001-	0109-
10 July 83, vol. 38, no. 1	0048	0156
Soviet Journal of Low Temperature Physics	0113-	0157-
March 83, vol. 9, no. 3	0170	0214

*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 appears here in CPM on the frames immediately following the appropriate articles:

- A. Kwick *et al.*, J. Chem. Phys. Vol. 79, No. 5 (1 September 1983) p. 2356 (31 pgs., 1 fiche).
- M. G. Wisnosky *et al.*, J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3505 (2 pgs., 1 fiche).
- R. Mawhorter *et al.*, J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3292 (71 pgs., 1 fiche).
- R. Lippman and R. Rudman, J. Chem. Phys., Vol. 79, No. 7 (1 October 1983) p. 3457 (14 pgs., 1 fiche).
- D. Gundel *et al.*, J. Chem. Phys., Vol. 79, No. 8 (15 October 1983) p. 3678 (8 pgs., 1 fiche).
- B. L. Henke *et al.*, Rev. Sci. Instrum. Vol. 54, No. 10 (October 1983) p. 1311 (5 pgs., 1 fiche).
- T. Rupp *et al.*, Phys. Rev. C, Vol. 28, No. 4 (October 1983) p. 1696 (18 pgs., 1 fiche).
- Z. Jiang *et al.*, Astron. J., Vol. 88, No. 11 (November 1983) p. 1679 (4 pgs., 1 fiche).
- R. Paulsson, J. Chem. Phys., Vol. 79, No. 9 (1 November 1983) p. 4346 (20 pgs., 1 fiche).
- F. J. Rogers *et al.*, Phys. Rev. A., Vol. 28, No. 5 (November 1983) p. 2990 (15 pgs., 1 fiche).
- S. C. Abrahams, J. Chem. Phys., Vol. 79, No. 12 (15 December 1983) p. 6237 (15 pgs., 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
