

PUBLICATIONS of ER PRIEST, April 2009

Books

- (i) Priest, ER (1981) (ed) *Solar Flare Magnetohydrodynamics*, Gordon and Breach, New York.
- (ii) Priest, ER (1982) *Solar Magnetohydrodynamics*, D Reidel, Holland.
(1985) Russian Translation published by Mir, Moscow.
- (iii) Priest, ER (1985) (ed) *Solar System Magnetic Fields*, D Reidel, Holland.
- (iv) Ballester, JL and Priest, ER (1988) (ed) Proc Workshop on *Dynamics and Structure of Solar Prominences*, Universitat de les Illes Balears Press.
- (v) Priest, ER (1989) (ed) *Dynamics and Structure of Quiescent Solar Prominences* D Reidel, Holland.
- (vi) Russell, CT, Priest, ER and Lee, LC (1990) (eds) *Magnetic Flux Ropes*, Geophys. Monograph 58, American Geophys. Union, 685 pp.
- (vii) Priest, ER and Krishan, V (1990) (eds) Proc IAU Symp. No.142, *Basic Plasma Processes on the Sun*, Kluwer Academic Publishers, Dordrecht, 540 pp.
- (viii) Ulmschneider, P, Priest, ER and Rosner, R (1991) (eds) *Mechanisms of Chromospheric and Coronal Heating*, Springer-Verlag, Berlin, 645pp.
- (ix) Priest, ER and Hood, AW (1991) (eds) *Advances in Solar System Magnetohydrodynamics*, Cambridge University Press, Cambridge UK, 435pp.
(1995) Russian Translation published by Mir, Moscow.
- (x) Schmieder, B and Priest, ER (1991) (eds) Flares 22 Workshop *Dynamics of Solar Flares*, Observatoire de Paris, 208 pp.
- (xi) Priest, ER (1991) (ed) TG Cowling Memorial Symposium on Solar System Plasmas, Special Issue of *Geophys. and Astrophys. Fluid Dynamics* **62**, 1-282.
- (xii) Kirk, JG, Melrose, DB and Priest, ER (1994) *Plasma Astrophysics*, Springer-Verlag, Berlin, 324 pp.
- (xiii) Priest, ER and Baker, DN (1997) (eds) *Reconnection in the Solar Corona and Magnetospheric Substorms*, Pergamon, Oxford, 226 pp.
- (xiv) Priest, ER, Moreno-Insertis, F and Harris, RA (1998) (eds) *A Crossroads for European Solar and Heliospheric Physics*, ESA SP-417, Noordwijk 328 pp.
- (xv) Priest, ER and Forbes, TG (2000) *Magnetic Reconnection: MHD Theory and Applications*, Cambridge University Press, Cambridge.
(2005) Russian Translation published, Moscow.
- (xvi) Lynden-Bel, D, Priest, ER and Weiss, NO (2000) (eds) *Magnetic Activity in Stars, Discs and Quasars*, *Phil. Trans. Roy. Soc. Lond. A* **358**, 633-867.
- (xvii) Murdin, P, Priest, ER et al (2000) *Encyclopedia of Astronomy and Astrophysics*, Inst. of Phys. Publishing, Bristol, UK,
- (xviii) Birn, J and Priest, ER (2007) (eds) *Reconnection of Magnetic Fields: MHD and Collisionless Theory and Observations*, Cambridge University Press, 342 pp.

Research Papers

- 1 Sanderson, JJ and Priest, ER (1971) 'Bernstein wave instability in collisionless shocks', *J Phys. A* **4**, L65-L67.
- 2 Sanderson, JJ and Priest, ER (1971) 'Temperature gradient instability in collisionless shocks', *Proc. Xth International Conf. on Phenomena in Ionized*

- Gases*, Oxford, p66.
- 3 Nakagawa, Y and Priest, ER (1972) 'Power spectra of solar granulation brightness
fluctuations', *Astroph. J.* **178**, 251-255.
- 4 Priest, ER and Sanderson, JJ (1972) 'Ion acoustic instability in collisionless
shocks', *Plasma Phys.* **14**, 951-958.
- 5 Sanderson, JJ and Priest, ER (1972) 'Collisionless shock wave instability',
Plasma Phys. **14**, 959-966.
- 6 Priest, ER (1972) 'Sweet's mechanism for flux destruction', *Quart. J. Mechs. and
Applied Maths.* **25**, 319.
- 7 Priest, ER (1972) 'A modification of Petschek's mechanism', *Mon. Not. Roy.
Astron. Soc.* **159**, 389-402.
- 8 Priest, ER and Smith, DF (1972) 'Current sheets in coronal streamers', *Astroph.
Letters* **12**, 25-29.
- 9 Smith, DF and Priest, ER (1972) 'Current limitation in solar flares', *Astroph. J.* **176**,
487-495 .
- 10 Altschuler, M, Priest, ER, Smith, DF and Swartztrauber, P (1973) 'The nonlinear
acceleration of a magnetic disturbance in the solar corona', *Solar Physics*
32, 153-171.
- 11 Nakagawa, Y and Priest, ER (1973) 'Energy spectrum of small-scale solar magnetic
fields', *Astroph. J.* **179**, 949-963.
- 12 Nakagawa, Y, Priest, ER and Welck, R (1973) 'Trapped magneto-atmospheric
waves', *Astrophys. J.* **184**, 931-953.
- 13 Priest, ER (1973) 'On steady magnetic field reconnection', *Astroph. J.* **181**, 227-
235.
- 14 Canfield, R, Priest, ER and Rust, DM (1974) 'A model for the solar flare', in
Flare-Related Magnetic Field Dynamics (ed Y Nakagawa & D Rust) p 361-
380.
- 15 Priest, ER and Heyvaerts, J (1974) 'A clue to the trigger for both the type III radio
burst and the solar flare', *Solar Phys.* **36**, 433-442.
- 16 Priest, ER and Pneuman, GW (1974) 'The influence of non-uniform solar wind
expansion on the angular momentum loss from the Sun', *Solar Phys.* **34**,
231-241.
- 17 Priest, ER and Raadu, MA (1974) 'Magnetic energy storage in current sheets', in
Flare Related Magnetic Field Dynamics (ed Y Nakagawa and D Rust)
p 227-238.
- 18 Priest, ER and Heyvaerts, J (1974) 'Neutral line absorbing features', in
Flare-Related Magnetic Field Dynamics (ed Y Nakagawa and D Rust)
p 283-292.
- 19 Priest, ER and Sonnerup, BUO (1975) 'Theories of magnetic field annihilation',
Geophys. J. Roy. Astron. Soc. **41**, 405-413.
- 20 Priest, ER and Cowley, SWH (1975) 'Some comments on magnetic
field reconnection', *J. Plasma Phys.* **14**, 271-282.
- 21 Roberts, B and Priest, ER (1975) 'On the maximum rate of magnetic field
reconnection for Petschek's mechanism', *J. Plasma Phys.* **14**, 417-431.
- 22 Priest, ER and Raadu, MA (1975) 'Preflare current sheets in the solar atmosphere',
Solar Phys. **43**, 177-188.
- 23 Sonnerup, BUO and Priest, ER (1975) 'Resistive magnetohydrodynamic stagnation
point flows at a current sheet', *J. Plasma Phys.* **14**, 283-294 .
- 24 Heyvaerts, J and Priest, ER (1976) 'Thermal evolution of current sheets and the
flash phase of solar flares', *Solar Phys.* **47**, 223-231.
- 25 Priest, ER (1976) 'Current sheets', *Phil. Trans. Roy. Soc. London* **A281**, 497-505.

- 26 Tur, TJ and Priest, ER (1976) 'The formation of current sheets during the
emergence of new magnetic flux from below the photosphere', *Solar Phys.* **48**,
89-100.
- 27 Sturrock, P *et al* (1976) 'Report on Solar Phys. - Plasma Phys. Workshop',
Solar Phys. **46**, 411-431.
- 28 Priest, ER and Soward, A M (1976) 'On fast magnetic field reconnection', Proc.
71st IAU Symp. on *Basic Mechanisms of Solar Activity*, Bumba & Kleczek
(eds), p 353-366.
- 29 Priest, ER (1976) 'Current sheet models of solar flares', *Solar Phys.* **47**, 41-75.
- 30 Priest, ER (1976) 'The solar flare phenomenon', in *Physics of the solar planetary
environment*, DJ Williams (ed), American Geophysical Union, **1**, p 144-169.
- 31 Heyvaerts, J, Priest, ER and Rust, DM (1977) 'An Emerging Flux Model for the
solar flare phenomenon', *Astrophysical Journal* **216**, 123-137.
- 32 Smith, EA and Priest, ER (1977) 'Formation of solar prominences by thermal
instability in a current sheet', *Solar Phys.* **53**, 25-40.
- 33 Soward, AM and Priest, ER (1977) 'Fast magnetic field reconnection', *Phil. Trans.
Roy. Soc. London A* **284**, 369-417.
- 34 Tur, TJ and Priest, ER (1978) 'A trigger mechanism for the Emerging Flux Model
of solar flares', *Solar Phys.* **58**, 181-200 .
- 35 Priest, ER (1978) 'The structure of coronal loops', *Solar Phys.* **58**, 57-87 .
- 36 Hood, AW and Priest, ER (1979) 'The equilibrium of solar coronal magnetic loops',
Astron. & Astrophys. **77**, 233-251.
- 37 Hood, AW and Priest, ER (1979) 'Kink instability of solar coronal loops as the
cause of small solar flares', *Solar Phys.* **64**, 303-321.
- 38 Milne, AM, Priest, ER and Roberts, B (1979) 'A model for quiescent
prominences', *Astrophys. J.* **232**, 304-317.
- 39 Priest, ER, Milne, AM and Roberts, B (1979) 'A modified Kippenhahn-Schluter
model for quiescent prominences', *Proc. Int. Astr. Union Colloq.* No 44,
p184-188.
- 40 Priest, ER and Smith, EA (1979) 'The structure of coronal arcades and the
formation of solar prominences', *Solar Phys.* **64**, 267-286.
- 41 Cargill, PJ and Priest, ER (1980) 'Siphon flows in coronal loops', *Solar Phys.* **65**,
251-269.
- 42 Hood, AW and Priest, ER (1980) 'Magnetic instability of coronal arcades as the
origin of two-ribbon solar flares', *Solar Phys.* **66**, 113-134.
- 43 Hood, AW and Priest, ER (1980) 'Are solar coronal loops in thermal equilibrium?'
Astron. Astrophys. **87**, 126-131.
- 44 Priest, ER and Milne, AM (1980) 'Force-free magnetic arcades relevant to two-
ribbon solar flares', *Solar Phys.* **65**, 315-346.
- 45 Priest, ER (1980) part of 'The preflare state', Ch 2 of *Solar Flares* (ed P A
Sturrock) Colo. Ass. Univ. Press, p 17-81.
- 46 Hood, AW and Priest, ER (1981) 'Thermal nonequilibrium: a trigger for solar
flares', *Solar Phys.* **73**, 289-311.
- 47 Hood, AW and Priest, ER (1981) 'Critical conditions for magnetic instabilities in
force-free coronal loops', *Geophys. Astrophys. Fluid Dynamics* **17**,
297-318 .
- 48 Hood, AW and Priest, ER (1981) 'Solar flares: magnetohydrodynamic
instabilities', *Solar Phenomena in Stars and Stellar Systems* (eds R M Bonnet
& A K Dupree) D Reidel, p 509-531.
- 49 Milne, AM and Priest, ER (1981) 'Internal structure of reconnecting current sheets
and the emerging flux model for solar flares', *Solar Phys.* **73**, 157-181.

- 50 Priest, ER (1981) 'Theory of loop flows and instability' Ch 9 of *Solar Active Regions* (ed F Q Orrall) Colo. Ass. Univ. Press., p 213-275.
- 51 Wragg, MA and Priest, ER (1981) 'The temperature density structure of coronal loops in hydrostatic equilibrium', *Solar Phys.* **70**, 293-313.
- 52 Wragg, MA and Priest, ER (1981) 'Models of the open solar atmosphere', *Solar Phys.* **69**, 257-271.
- 53 Priest, ER (1981) 'Current Sheets', Chap 3 of *Solar Flare Magnetohydrodynamics* (ed ER Priest) Gordon and Breach, p 139-216.
- 54 Browning, PK and Priest, ER (1982) 'The structure of untwisted magnetic flux tubes', *Geophys. Astrophys. Fluid Dynamics* **21**, 237-263.
- 55 Cargill, PJ and Priest, ER (1982) 'Slow shock heating and the Kopp-Pneuman model for post-flare loops', *Solar Phys.* **76**, 357-375.
- 56 Cargill, PJ and Priest, ER (1982) 'The energetics of steady-state flows in the solar corona', *Geophys. Astrophys. Fluid Dynamics* **20**, 227-245.
- 57 Forbes, TG and Priest, ER (1982) 'A numerical study of line-tied magnetic reconnection', *Solar Phys.* **81**, 303-324.
- 58 Forbes, TG and Priest, ER (1982) 'Neutral line motion due to reconnection in two-ribbon solar flares and magnetospheric substorms', *Planetary Space Sci.* **30**, 1183-1197.
- 59 Forbes, TG, Priest, ER and Hood, AW (1982) 'Evolution of current sheets following the onset of enhanced resistivity', *J. Plasma Phys.* **27**, 157-176.
- 60 Hood, AW, Priest, ER and Einaudi, G (1982) 'Effect of pressure gradients and line-tying on magnetic stability of coronal loops', *Geophys. Astroph. Fluid Dynamics* **20**, 247-263.
- 61 Priest, ER (1982) 'Flare theories', *Solar Activity* (ed C Jordan) p 203-232 .
- 62 Priest, ER (1982) 'Coronal loop structure and its heating mechanism', *Reports in Astronomy* .
- 63 Priest, ER (1982) 'Theories for simple-loop and two-ribbon solar flares', *Fundamentals of Cosmic Physics* **7**, 363-445.
- 64 Priest, ER (1982) 'Magnetic instabilities in stellar atmospheres', *Int. Astron. Union Colloq.* No 71, p 545-558.
- 65 Soward, AM and Priest, ER (1982) 'Fast magnetic field line reconexion in a compressible fluid: I Coplanar field lines', *J. Plasma Phys.* **28**, 335-367.
- 66 Wragg, MA and Priest, ER (1982) 'Thermally isolated coronal loops in hydrostatic equilibrium', *Solar Phys.* **80**, 309-312.
- 67 Wragg, MA and Priest, ER (1982) 'The thermal stability of solar coronal loops in hydrostatic equilibrium', *Astron. Astrophys.* **113**, 269-276.
- 68 Browning, PK and Priest, ER (1983) 'The structure of twisted magnetic flux tubes', *Astrophys. J.* **266**, 848-865.
- 69 Cargill, PJ and Priest, ER (1983) 'The heating of post-flare loops', *Ap. J.* **266**, 383-389.
- 70 Forbes, TG and Priest, ER (1983) 'On reconnection and plasmoids in the geomagnetic tail', *J. Geophys. Res.* **88**, 863-870.
- 71 Forbes, TG and Priest, ER (1983) 'A numerical experiment relevant to line-tied reconnection in two-ribbon flares', *Solar Phys.* **84**, 169-188.
- 72 Forbes, TG and Priest, ER, (1983) 'Mass upflows in 'post'-flare loops', *Solar Phys.* **88**, 211-218.
- 73 Heyvaerts, J and Priest, ER (1983) 'Coronal heating by phase-mixed Alfvén waves', *Astron. Astrophys.* **117**, 220-234 .
- 74 Malherbe, JM and Priest, ER (1983) 'Current sheet models for solar prominences I', *Astron. Astrophys.* **123**, 80-88.

- 75 Malherbe, JM, Priest, ER, Forbes, TG and Heyvaerts, J (1983) 'Current sheet models for solar prominences II', *Astron. Astrophys.* **127**, 153-160.
- 76 Melville, J, Hood, AW and Priest, ER, (1983) 'Magnetic nonequilibrium of coronal arcades', *Solar Phys.* **87**, 301-307.
- 77 Priest, ER (1983) 'The magnetohydrodynamics of solar activity', *Plasma Physics* **25**, 161-187.
- 78 Priest, ER (1983) 'Magnetic theories of solar flares', *Solar Phys.* **86**, 33-45 .
- 79 Priest, ER (1983) 'A new Sun', *Alumnus Chronicle* **74**, 18.
- 80 Priest, ER (1983) 'The MHD of solar flares', *Proc. Kunming Workshop on Solar Physics* (ed C de Jager and Chen Biao) p 73-88.
- 81 Priest, ER (1983) 'Magnetic instabilities in stellar atmospheres', *IAU Colloq.* **71**, 545-558.
- 82 Priest, ER and Weiss, NO (1983) 'Solar and stellar magnetic fields', *Observatory* **103**, 239-244.
- 83 Browning, PK and Priest, ER (1984) 'Global magnetohydrostatic fields in stellar atmospheres', *Geophys. Astroph. Fluid Dynamics* **28**, 141-160.
- 84 Browning, PK and Priest, ER (1984) 'Kelvin-Helmholtz instability of phase-mixed Alfvén waves', *Astron. Astrophys.* **131**, 283-290.
- 85 Browning, PK and Priest, ER (1984) 'The magnetic nonequilibrium of buoyant flux tubes in the solar corona', *Solar Phys.* **92**, 173-188.
- 86 Forbes, TG and Priest, ER (1984) 'Numerical simulation of reconnection in an emerging flux region', *Solar Phys.* **94**, 315-340.
- 87 Forbes, TG and Priest, ER (1984) 'Reconnection in Solar Flares', in *Solar Terrestrial Physics : Present and Future*, (ed DM Butler & K Papadopoulos, NASA Reference Pub. 1120, p I.35-I.39.
- 88 Heyvaerts, J and Priest, ER (1984) 'Coronal heating by reconnection in DC current systems. A theory based on Taylor's hypothesis', *Astron. Astrophys.* **137**, 63-78.
- 89 Malherbe, JM, Forbes, TG and Priest, ER (1984) 'A numerical simulation of the formation of solar prominences', *Proc. 4th European Meeting on Solar Physics*, ESA SP-220, p 119-122.
- 90 Melville, JP, Hood, AW and Priest, ER (1984) 'Magnetohydrostatic structures in the solar atmosphere', *Solar Phys.* **92**, 15-31.
- 91 Nocera, L, Leroy, B and Priest, ER (1984) 'Phase mixing of propagating Alfvén waves', *Astron. Astrophys.* **133**, 387-394.
- 92 Nocera, L and Priest, ER (1984) 'Coronal heating by turbulent phase-mixed MHD waves', *Proc. 4th European Meeting on Solar Physics*, ESA SP-220, p 249-252.
- 93 Priest, ER (1984) 'Magnetic reconnection at the Sun', in *Magnetic reconnection in space and lab plasmas* (ed E Hones) AGU Monograph, p 63-78.
- 94 Priest, ER (1984) 'Looking into the Sun', *Times Higher Educational Suppl.* 3 Feb, 13
- 95 Priest, ER (1984) 'The role of newly emerging flux in the flare process', *Adv. Space Res.* **4**, 37-48.
- 96 Veck, N, Strong, K, Jordan, C, Simnett, G, Cargill, PJ, Priest ER (1984) 'The development and cooling of a solar limb-flare', *Mon. Not. Roy. Astron. Soc.* **210**, 443-462.
- 97 Anzer, U and Priest, ER (1985) 'Remarks on the magnetic support of quiescent prominences', *Solar Phys.* **95**, 263-268.
- 98 Nocera, L, Leroy, B and Priest, ER (1985) 'Phase mixing of Alfvén waves', *IAU Symp.* **107**, 365-369.

- 99 Priest, ER (1985) 'Current sheets in solar flares', *IAU Symp.* **107**, 233-244.
- 100 Priest, ER (1985) 'The MHD of current sheets', *Rep. Prog. Phys.* **48**, 955-1090.
- 101 Priest, ER (1985) 'Small-scale reconnection', ESA Workshop on *Future Missions in Solar, Heliospheric and Space Plasma Physics*, ESA SP-235, p 137-150.
- 102 Priest, ER (1985) 'Theory of flares', *Reports in Astron.*, Report of Commission 10.
- 103 Browning, PK and Priest, ER (1986) 'Heating of coronal arcades by magnetic tearing turbulence using the Taylor-Heyvaerts hypothesis', *Astron. Astrophys.* **159**, 129-141.
- 104 Browning, PK and Priest, ER (1986) 'The shape of buoyant coronal loops in a magnetic field and the eruption of coronal transients and prominences', *Solar Phys.* **106**, 335-352.
- 105 Browning, PK, Sakurai, T and Priest, ER (1986) 'Coronal heating in closely-packed flux tubes : a Taylor-Heyvaerts relaxation theory', *Astron. Astrophys.* **158**, 217-227.
- 106 Melville, J, Hood, AW and Priest, ER (1986) 'Ideal MHD stability of tied magnetic field lines in a coronal magneto-hydrostatic equilibrium', *Solar Phys.* **105**, 291-306.
- 107 Melville, J, Hood, A W and Priest, ER (1986) 'Criteria for stability of a line-tied magnetohydrostatic equilibrium in the solar corona', *Adv. Space Res.* **6**, 49-52.
- 108 Nocera, L and Priest, ER (1986) 'Onset of an energy cascade and non-periodic behaviour in the nonlinear propagation of MHD waves in the solar atmosphere', *Geophys. Astrophys. Fluid Dynamics* **37**, 193-218.
- 109 Priest, ER (1986) in *Plasma Penetration into Magnetospheres* (ed N Kylatis, J Papamastorakis, J Ventura) Crete Univ. Press, 1-14.
- 110 Priest, ER (1986) 'Magnetic reconnection on the Sun', *Mit. Astron. Ges.* **65**, 41-51.
- 111 Priest, ER (1986) 'The MHD of solar flares', *Proc. RAL Workshop on Solar and Stellar Flares* (ed P M Gondhalekar), RAL-86-0865, p 140-157.
- 112 Priest, ER (1986) 'Role of magnetic reconnection in solar flares', *Adv. Space Res.* **6**, 73-82.
- 113 Priest, ER (1986) 'MHD theories of solar flares', *Solar Phys.* **104**, 1-18.
- 114 Priest, ER and Forbes, TG (1986) 'New models for fast steady-state reconnection', *J. Geophys. Res.* **91**, 5579-5588.
- 115 Priest, ER, Gaizauskas, V, Hagyard, M, Schmahl, E and Webb, D (1986) 'Preflare activity', Ch 1 of *Energetic Phenomena on the Sun* SMM Workshop Proceedings (ed M Kundu and B Woodgate) NASA Conf. Pub. 2439, 1-79.
- 116 Nocera, L, Priest, ER and Hollweg, J (1986) 'Nonlinear development of phase-mixed Alfvén waves', *Geophys. Astrophys. Fluid Dynamics* **35**, 111-129.
- 117 Soward, AM and Priest, ER (1986) 'Magnetic reconnection with jets', *J. Plasma Phys.* **35**, 333-350.
- 118 Steinolfson, R, Priest, ER, Poedts, S, Nocera, L and Goossens, M (1986) 'Viscous normal modes on coronal inhomogeneities and their role as a heating mechanism', *Astrophys. J.* **304**, 526-531.
- 119 Priest, ER (1987) 'Magnetic reconnection in solar flares', *Solar Maximum Analysis* (eds V Stepanov and V Obridko), VNU Science Press, Utrecht, p157-171.
- 120 Ballester, JL and Priest, ER (1987) 'A 2D model for a solar prominence', *Solar Phys.* **109**, 335-350.
- 121 Melville, JP, Hood, AW and Priest, ER (1987) 'Effect of gravity on stability of line-tied coronal magnetohydrostatic equilibrium', *Geophys. Astrophys. Fluid Dynamics* **39**, 83-103.
- 122 Priest, ER (1987) 'Theoretical description of magnetic fields', Proc. Cargese Workshop on *Magnetic Fields in ExtraGalactic Objects* (ed E Asseo and D

- Gresillon), Ed. de Phys, Paris, p 17-36.
- 123 Forbes, TG and Priest, ER (1987) 'A comparison of analytical and numerical
models for steadily driven reconnection', *Rev. Geophys.* **25**, 1583-1607.
- 124 Priest, ER (1987) 'Appearance and disappearance of magnetic flux at the solar
surface', in *Role of Fine-Scale Magnetic Fields on Structure of the Solar
Atmosphere* (ed E Schroter, M Vazquez, A Wyller), Camb. Univ. Press, p 297-
316.
- 125 Robertson, JA and Priest, ER (1987) 'Line-tied magnetic reconnection', *Solar Phys.*
114, 311-328.
- 126 Sakai, J, Colin, A and Priest, ER (1987) 'Dynamical model of prominence
formation and oscillation', *Solar Phys.* **114**, 253-271.
- 127 Demoulin, P and Priest, ER (1988) 'Nonequilibrium of a prominence current in a
linear force-free field', in Ballester and Priest (1988), p45-49.
- 128 Steele, CDC and Priest, ER (1988) 'Eruption of a prominence and a coronal
transient', in Ballester and Priest (1988), p157-161.
- 129 Ballester, JL and Priest, ER (1988) 'A 2D model for a prominence', in Ballester and
Priest (1988), p 137-144.
- 130 Dixon, AM, Browning, PK and Priest, ER (1988) 'Coronal heating by relaxation
in a sunspot magnetic field', *Geophys. Astrophys. Fluid Dynamics* **40**, 293-
327.
- 131 Priest, ER (1988) 'Solar Plasma Physics', *Phys. Bulletin* **39**, 66-68.
- 132 Krishan, V and Priest, ER (1988) 'Dynamics of magnetic and velocity fields in
coronal loops', *Proc National Solar Observatory/ Solar Maximum Mission
Summer Meeting* (ed R Altrock), p 236-247.
- 133 Jardine, M and Priest, ER (1988) 'Reverse currents in fast magnetic reconnection',
Geophys. Astrophys. Fluid Dynamics **42**, 163-168.
- 134 Priest, ER (1988) 'Theory of solar flares', in Commission 10 Report on Solar
Activity in *Reports on Astronomy* (ed J P Swings), Kluwer, p.86-89
- 135 Demoulin, P and Priest, ER (1988) 'Instability of a prominence supported in a linear
force-free field', *Astron. Astrophys.* **206**, 336-347.
- 136 Priest, ER (1988) 'The initiation of solar coronal mass ejections by magnetic
nonequilibrium', *Astrophys. J.* **328**, 848-855.
- 137 Priest, ER (1988) 'Nonuniform MHD nature of the solar corona. I. Basic
solutions', *Astrophys. J.* **329**, 1009-1022.
- 138 Hermans, D and Priest, ER (1988) 'Thermal instability in a stratified plasma', *Proc
Workshop on Plasma Astrophys* Varenna (ESA SP-2853), p99-102.
- 139 Priest, ER (1988) 'Structuring of plasma by a magnetic field', *Proc. Joint
Varenna-Abastumani International Workshop on Plasma Astrophys.*, Varenna,
ESA SP-285 I, p189-195.
- 140 Priest, ER (1988) 'Magnetic energy conversion on the Sun', *Proc. International
Workshop on Reconnection in Space Plasma*, Potsdam, ESA SP-285 II, p73-81.
- 141 Priest, ER and Forbes, TG (1989) 'Steady reconnection in three dimensions', *Solar
Phys.* **119**, 211-214.
- 142 Steele, CD and Priest, ER (1989) 'Eruption of a prominence and a coronal mass
ejection which drive reconnection', *Solar Phys.* **119**, 157-196.
- 143 Patchett, B, Priest, ER *et al* (1989) 'CDS - the coronal diagnostic spectrometer', in
"the SOHO Mission", *ESA SP-1104*, p 39-42.
- 144 Michels, D, Priest, ER *et al* (1989) 'LASCO - a wide field white light and
spectrometric coronagraph for SOHO', *ESA SP-1104*, p55-62.
- 145 Priest, ER, Hood, AW and Anzer, U (1989) 'A Twisted Flux Tube Model for solar
prominences: I General Properties', *Astrophys. J.* **344**, 1010-1025.

- 146 Jardine, M and Priest, ER (1988) 'Weakly nonlinear theory of fast steady-state
magnetic reconnection', *J. Plasma Phys.* **40**, 143-161.
- 147 Jardine, M and Priest, ER (1988) 'Global energetics of fast magnetic reconnection',
J Plasma Phys. **40**, 505-515.
- 148 Dixon, A, Berger, M, Browning, PK and Priest, ER (1989) 'A generalisation of the
Woltjer minimum energy principle', *Astron. Astrophys.* **225**, 156-166.
- 149 Dixon, A, Browning, PK, Bevir, M, Gimblett, C and Priest, ER (1990) 'Relaxed
states in a spheromak with inhomogeneous boundary fields', *J. Plasma Phys.*
43, 357-383.
- 150 Forbes, TG, Malherbe, JM and Priest, ER (1989) 'The formation of flare loops by
magnetic reconnection and chromospheric ablation', *Solar Phys.* **120**, 285-308.
- 151 Demoulin, P, Malherbe, JM and Priest, ER (1989) 'The magnetic field around
quiescent prominences computed from observational boundary conditions',
Astron. Astrophys. **211**, 428-440.
- 152 Demoulin, P and Priest, ER (1989) 'A Twisted Flux Tube Model for solar
prominences. II. Formation of a dip', *Astron. Astrophys.* **214**, 360-368.
- 153 Demoulin, P, Priest, ER and Anzer, U (1989) 'A three-dimensional force-free
magnetic field model for solar prominences', *Astron. Astrophys.* **221**, 326-337.
- 154 de Ville, A and Priest, ER (1989) 'Nonuniform MHD nature of the solar corona. II.
Generalisation of basic solutions', *Astrophys. J.* **340**, 579-598.
- 155 Heyvaerts, J and Priest, ER (1989) 'A model for a non-Keplerian magnetic
accretion disc with a magnetically heated corona', *Astron. Astrophys.* **216**, 230-
244.
- 156 Jardine, M and Priest, ER (1989) 'Comparison of compressible and incompressible
models of reconnection', *Reconnection in Space Plasma*, ESA SP-285 (ed T
Guyenne & T Hunt) p 45-50.
- 157 Steele, CD, Hood, AW, Priest, ER and Amari, T (1989) 'Nonequilibrium of a
cylindrical magnetic arcade', *Solar Phys.* **123**, 127-141.
- 158 Priest, ER and Falciani, R (1989) eds of *Solar and Stellar Coronae*, Proc of Joint
Commission Meeting in *Highlights in Astron.* (ed D McNally) Kluwer
Academic Press **8**, 501-542.
- 159 Jardine, M and Priest, ER (1989) 'Compressible models of fast steady-state
magnetic reconnection', *J. Plasma Phys.* **42**, 111-132.
- 160 Jardine, M and Priest, ER (1990) 'Energetics of compressible fast steady-state
magnetic reconnection', *J. Plasma Phys.* **43**, 141-150.
- 161 Priest, ER (1989) 'Solar Research', *Alumnus Chronicle*.
- 162 Amari, T, Demoulin, P, Browning, PK, Hood, AW and Priest, ER (1991) 'The
creation of the magnetic environment for prominence formation in a coronal
arcade', *Astron. Astrophys.* **241**, 604-612.
- 163 Ballester, JL and Priest, ER (1989) 'A model for the fibril structure of solar
prominences', *Astron. Astrophys.* **225**, 213-221.
- 164 Priest, ER (1990) 'The equilibrium of magnetic flux ropes', AGU Monograph on
Physics of Magnetic Flux Ropes (ed C Russell, E Priest and L Lee), 1-22.
- 165 Priest, ER and Forbes, TG (1990) 'Magnetic field evolution during prominence
eruptions and two-ribbon flares', *Solar Phys.* **126**, 319-350.
- 166 Steele, CD and Priest, ER (1990) 'Thermal equilibria of coronal magnetic loops',
Solar Phys. **125**, 295-319.
- 167 de Ville, A and Priest, ER (1989) 'Nonuniform MHD nature of the solar corona.
III. Cylindrical geometry', *Astrophys. J.* **347**, 1167-1175.
- 168 Hick, P and Priest, ER (1989) 'Slow shock heating in post flare arches', *Solar
Phys.* **122**, 111-129.

- 169 Jardine, M and Priest, ER (1989) 'Comparison of energetics of magnetic reconnection for compressible and incompressible models', in *Solar Plasma Phenomena* (ed MA Dubois, F Bely-Dubeau, D Gressilon) Proc. Cargese Workshop, p 219-226.
- 170 de Ville, A and Priest, ER (1991) 'Nonuniform MHD nature of the solar corona. IV. Effect of magnetogravity interactions', *Astrophys J.* **359**, 560-573.
- 171 Demoulin, P and Priest, ER (1989) 'How to form a dip in a magnetic field before the formation of a solar prominence', *Hvar Obs. Bull.* **13**, 261-268.
- 172 Demoulin, P and Priest, ER and Anzer, U (1989) 'A 3D model for solar prominences', *Hvar Obs. Bull.* **13**, 253-260.
- 173 Ballester, JL and Priest, ER (1990) 'A fibril model for prominences', AGU Monograph on *Physics of Magnetic Flux Ropes* (ed. C Russell, E Priest and L Lee), 321-336.
- 174 Priest, ER (1990) 'Magnetic structure of prominences', IAU Colloq. 117 on *Dynamics of Solar Prominences*, Hvar (ed. E. Tandberg-Hanssen) p150-186.
- 175 Priest, ER (1990) 'Magnetic Reconnection on the Sun', IAU Symp 142 on *Basic Plasma Processes in the Sun*, (ed ER Priest and V. Krishan), p271-292.
- 176 Vekstein, GE, Priest, ER and Amari, T (1991) 'Formation of current sheets in force-free magnetic fields', *Astron. Astrophys.* **243**, 492-500.
- 177 Steele, CDC and Priest, ER (1990) 'Thermal equilibria of isobaric coronal magnetic arcades', *Solar Phys.* **134**, 73-97.
- 178 Engvold, O, Hirayama T, Leroy J-L, Priest, ER and Tandberg-Hanssen, E (1990) 'Hvar reference atmosphere of quiescent prominences', *IAU Colloq 117* on *Dynamics of Solar Prominences* (ed. E. Tandberg-Hanssen) p294-297.
- 179 Priest, ER and Lee, LC (1990) 'Nonlinear magnetic reconnection models with separatrix jets', *J. Plasma Phys.* **44**, 337-360.
- 180 Demoulin, P and Priest, ER (1992) 'The properties of sources and sinks of a linear force-free field', *Astron. Astrophys.* **258**, 535-541.
- 181 Priest, ER (1990) 'Magnetic reconnection theory', *Memoria della Societa Astronomica Italiana* **61**, 383-400.
- 182 Ridgway, C, Priest ER and Amari, T. (1991) 'A Twisted Flux Tube Model for solar prominences. III. Magnetic support', *Astrophys.J.* **367**, 321-332.
- 183 de Ville, A. and Priest, ER (1991) 'Steady flows in magnetic arcades - a class of exact MHD solutions', *Geophys. Astrophys. Fluid Dyn.* **61**, 225-234.
- 184 Vekstein, GE, Priest, ER and Steele, CDC (1991) 'Magnetic reconnection and energy release in the solar corona by Taylor relaxation', *Solar Phys.* **131**, 297-318.
- 185 Krishan, V. and Priest, ER (1990) 'Magnetic helicity of oscillating coronal loops', IAU Symp 142 on *Basic Plasma Processes in the Sun*, (ed. ER Priest and V Krishan), p256-266.
- 186 Priest, ER (1995) 'The Sun and its magnetohydrodynamics', in *Introduction to Space Physics* (ed. MG Kivelson and CT Russell), Cambridge University Press, p58-90.
- 187 de Ville, A. and Priest, ER (1991) 'Steady flows in solar magnetic structures - a class of exact MHD solutions', *Geophys. Astrophys. Fluid Dyn.* **59**, 253-265.
- 188 Oliver, R, Ballester, JL and Priest, ER (1990) 'Effect of an external magnetic field on prominence properties', Proc. European Solar Meeting (ed. L. Dezso) *Publ Debrecen Obs* **7**,170-171.
- 189 Ridgway, C, Amari, T and Priest, ER (1990) 'Support of a prominence by a constant - current force-free field', Proc. European Solar Meeting (ed. L. Dezso) *Publ Debrecen Obs* **7**,166-167.

- 190 Strachan, N and Priest, ER (1990) 'Two-dimensional magnetic neutral points',
Proc. European Solar Meeting (ed. L. Dezso) *Publ Debrecen Obs* **7**,168-169.
- 191 Steele, CD and Priest, ER (1990) 'Heating of coronal arcades', Proc. European
Solar Meeting (ed. L. Dezso) *Publ Debrecen Obs* **7**,164-165.
- 192 Steele, CD and Priest, ER (1990) 'Thermal equilibria of coronal magnetic arcades',
Solar Phys. **127**, 65-94.
- 193 Nocera, L and Priest, ER (1991) 'Bistability of a forced hydromagnetic cavity', *J.*
Plasma Phys. **46**, 153-177.
- 194 Priest, ER (1991) 'Formation of current sheets and coronal heating', in *Mechanisms*
of Chromospheric and Coronal Heating (ed P.Ulmschneider, ER Priest and R
Rosner), Springer-Verlag, Berlin, p520-535.
- 196 Strachan, N and Priest, ER (1990) 'Magnetic neutral points in 2D', in *Mechanisms*
of Chromospheric and Coronal Heating (ed P.Ulmschneider, ER Priest and R
Rosner), Springer-Verlag, Berlin, p539.
- 197 Strachan, N and Priest, ER (1991) 'The structure of magnetic neutral points in two
dimensions', *Geophys. Astrophys. Fluid Dyn.* **61**, 199-224.
- 198 Steele, CD and Priest, ER (1989) 'Thermal equilibrium of coronal loops and
prominence formation', *Hvar Obs. Bull.* **13**, 283-288.
- 199 Vekstein, G and Priest, ER (1990) 'Current sheet formation in force-free magnetic
fields', in *Mechanisms of Chromospheric and Coronal Heating* (ed P
Ulmschneider, ER Priest and R Rosner), Springer-Verlag, Berlin, p536.
- 200 Steele, CD and Priest, ER (1990) 'Effect of coronal heating on coronal arcades', in
Mechanisms of Chromospheric and Coronal Heating (ed P Ulmschneider,
ER Priest and R Rosner), Springer-Verlag, Berlin, p544.
- 201 Jardine, M, Priest, ER and Allen, H (1990) 'Magnetic field annihilation with a
stagnation-point flow', in *Mechanisms of Chromospheric and Coronal*
Heating (ed P Ulmschneider, ER Priest and R Rosner), Springer-Verlag,
Berlin, p602.
- 202 Priest, ER and Forbes, TG (1990) 'The evolution of coronal magnetic fields', *Solar*
Phys. **130**, 399-402.
- 203 Demoulin, P, Priest, ER and Ferreira, J (1991) 'Instability of a prominence
supported in a linear force-free field. II Effect of twist and flux conservation',
Astronomy and Astrophysics **245**, 289-298.
- 204 Demoulin, P, Priest, ER and Ferreira, J (1990) 'Conditions needed for prominence
eruption', in *Dynamics of Solar Flares* (ed B Schmieder and ER Priest), 207.
- 205 Priest, ER (1991) 'Commission 10, Solar Activity', *Reports on Astronomy*,
(ed D McNally) Kluwer Academic Press **XXIA**, 53-84.
- 206 Priest, ER and Forbes, TG (1992) 'Magnetic flipping - reconnection in three
dimensions without null points', *J. Geophys. Res.* **97**, 1521-1531.
- 207 Priest, ER, Hood, AW and Anzer, U (1991) 'The fibril structure of prominences',
Solar Phys. **132**, 199-202.
- 208 Heyvaerts, J and Priest, ER (1992) 'A self-consistent turbulent model for solar
coronal heating', *Astrophys. J.* **390**, 297-308.
- 209 Demoulin, P and Priest, ER (1993) 'A model for an inverse-polarity prominence
supported in a dip of a quadrupolar region', *Solar Phys.* **144**, 283-305.
- 210 Jardine, M, Allen, HR, Grundy, REG and Priest, ER (1992) 'A family of 2-D
nonlinear solutions for magnetic field annihilation', *J. Geophys. Res.* **97**,
4199-4208.
- 211 Hood, AW, Priest, ER and Anzer, U (1992) 'The fibril structure of
prominences', *Solar Phys.* **138**, 331-352.
- 212 Yan, M, Lee, LC and Priest, ER (1992) 'Fast magnetic reconnection with small

- shock angles', *J. Geophys. Res.* **97**, 8277-8293.
- 213 Vekstein, GE and Priest, ER (1992) 'Magnetohydrostatic equilibria and cusp
formation at an X-type neutral line by footpoint shearing', *Astrophys. J.*
384, 333-340.
- 214 Steele, CDC and Priest, ER (1991) 'Thermal equilibria of coronal magnetic loops
with non-constant cross-sectional area', *Solar Phys.* **132**, 293-306.
- 215 Meerson, B, Priest, ER and Steele, CDC (1993) 'On the nonlinear theory of the
radiation-driven thermal instability of a magnetized plasma', *Geophys. &
Astrophys. Fluid Dyn.* **71**, 243-265.
- 216 Priest, ER (1991) 'The magnetohydrodynamics of energy release in solar flares',
Phil. Trans. Roy. Soc. Lond. A., **336**, 363-380.
- 217 Priest, ER (1992) 'Solar flare MHD processes', *Pub. Astron. Inst. Acad. Sci. Czech
Republic* **88**, 95-120.
- 218 Priest, ER (1998) 'Magnetic mechanisms for heating the solar corona', *Pub. Astron.
Inst. Acad. Sci. Czech Republic* **88**, 142-166.
- 219 Oliver, R, Ballester, JL and Priest, ER (1991) 'A two-dimensional model for a
solar prominence: effect of an external magnetic field', *Solar Phys.* **134**, 123-
144.
- 220 Choudhuri, AR, Auffret, H and Priest, ER (1993) 'Implications of rapid footpoint
motions of photospheric flux tubes for the heating of the corona', *Solar Phys.*
143, 49-68.
- 221 Priest, ER (1992) 'Basic magnetic configuration and energy supply processes for
an Interacting Flux Model of eruptive solar flares', *Proc IAU Colloq 133 on
Eruptive Solar Flares* (ed Z Svestka, B Jackson, M Machado) Springer-Verlag,
15 - 32.
- 222 Ridgway, C, Amari, T and Priest, ER (1991) 'Prominence sheets supported by
constant-current force-free fields. I Imposition of normal magnetic field
components at the current sheet and the photosphere', *Astrophys. J.* **378**, 773 -
784.
- 223 Ridgway, C, Amari, T and Priest, ER (1992) 'Prominence sheets supported by
constant-current force-free fields. II Imposition of normal photospheric field
component and prominence surface current', *Astrophys. J.* **385**, 718-730.
- 224 Harvey, J and Priest, ER (1992) Commissions 10 and 12 Report on Solar Activity
and Solar Radiation and Structure in *Reports on Astronomy* (ed D McNally)
- 225 Priest, ER and Forbes, TG (1992) 'Does fast magnetic reconnection exist?', *J.
Geophys. Res.* **97**, 16757-16772.
- 226 Oliver, R, Ballester, JL, Hood, AW and Priest, ER (1992) 'Magnetohydrodynamic
waves in a solar prominence', *Astrophys. J* **400**, 369-379.
- 227 Priest, ER (1992) 'Fast magnetic reconnection and its role in solar flares', *Current
Topics in Astrophysical and Fusion Plasma Research* (ed M Heyn and W Kern-
bichler), dbv-Verlag fur die Technische Universitat, Graz, p1-6.
- 228 Gubchenko, VM and Priest, ER (1992) 'Collisionless magnetic annihilation in the
quasi-current-free approximation', *Current Topics in Astrophysical and Fusion
Plasma Research* (ed M Heyn and W Kernbichler), dbv-Verlag fur die
Technische Universitat, Graz, p 43-52.
- 229 Tsinganos, K, Surlantis, G and Priest, ER (1992) 'MHD equilibria with flows in
uniform gravity II: A class of exact 2D loop-like solutions', *Astron.
and Astrophys.* **275**, 613-629.
- 230 Anderson, C and Priest, ER (1993) 'Time-dependent magnetic annihilation at a
stagnation point', *J. Geophys. Res.* **98**, 19395-19407.
- 231 Titov, V and Priest, ER (1993) 'The collapse of an X-type neutral point to form a

- reconnecting time-dependent current sheet', *Geophys. Astrophys. Fluid Dynamics* **72**, 249-276.
- 232 Ryutova, M and Priest, ER (1993) 'The propagation of sound waves in a randomly magnetized medium: I General considerations', *Astrophys. J.* **419**, 349-370.
- 233 Ryutova, M and Priest, ER (1993) 'The propagation of sound waves in a randomly magnetized medium: II The interaction of an unsteady wave packet with an ensemble of magnetic flux tubes', *Astrophys. J.* **419**, 371-381.
- 234 Priest, ER (1992) 'Solar coronal magnetic structures', *Proc. 26th ESLAB Symp. Killarney*, ESA SP 346, p 13 - 19.
- 235 Oliver, R, Ballester, JL, Hood, AW and Priest, ER (1992) 'Oscillations in quiescent solar prominences', *Current Topics in Astrophysical and Fusion Plasma Research* (ed M Heyn and W Kernbichler), dbv-Verlag fur die Technische Universitat, Graz, p 93-98.
- 236 Lima, J and Priest, ER (1993) 'Two-dimensional models for solar and stellar winds: hydrodynamic effects', *Astron. and Astrophys.* **268**, 641-649.
- 237 Steele, CDC and Priest, ER (1992) 'A model for the fibril structure of Normal-Polarity solar prominences', *Solar Phys.* **140**, 289-306.
- 238 Priest, ER (1993) 'Coronal heating mechanisms', in *Physics of Solar and Stellar Coronae* (ed. J. Linsky and S. Serio), Kluwer Academic Publishers, Dordrecht, 515-532.
- 239 Yan, M, Lee, LC and Priest, ER (1993) 'Magnetic reconnection with large separatrix angles', *J Geophys. Res.* **98**, 7593-7602.
- 240 Priest, ER (1994) 'A comparison of theories and numerical experiments on fast steady-state reconnection', in *The Solar Wind-Magnetosphere System* (ed HK Biernat, G Bachmaier, S Bauer, R Rijnbeek), Austrian Academy of Sciences, Vienna, p93-101.
- 241 Priest, ER (1993) 'Coronal heating by MHD turbulence', *Magnetic Turbulence and Transport* (ed P Hennequin and M Dubois) Ed de Physique, France, p 203-228.
- 242 Ridgway, C and Priest, ER (1993) 'Prominence support in helical coronal fields formed by photospheric motions', *Solar Phys.* **146**, 277-296.
- 243 Oliver, R, Ballester, JL, Hood, AW and Priest, ER (1993) 'MHD waves in a potential coronal arcade', *Astron. Astrophys.* **273**, 647-658.
- 244 Titov, VS, Priest, ER and Demoulin, P (1993) 'Conditions for the appearance of "bald patches" at the solar surface', *Astron. Astrophys.* **276**, 564-570.
- 245 Vekstein, GE, Priest, ER and Steele, CDC (1993) 'On the problem of magnetic coronal heating by turbulent relaxation', *Astrophys. J.* **417**, 781-789.
- 246 Steele, CDS and Priest, ER (1992) 'Thermal profiles of loops - gravitational considerations', in *Coronal Streamers, Coronal Loops and Coronal and Solar Wind Composition* ESA SP 348, p193-196.
- 247 Nocera, L and Priest, ER (1992) 'Structural instability of nonlinear Alfvén waves', *Mem. Soc. Astron. Italiana* **63**, 773-776.
- 248 Parnell, CE and Priest, ER (1993) 'A theoretical model of an X-ray bright point', *Current Topics in Astrophysical and Fusion Plasma Research* (ed MF Heyn, W Kernbichler and HK Biernat) dbv-Verlag Graz, p118-123.
- 249 Oliver, R, Ballester, JL, Hood, AW and Priest, ER (1993) 'MHD waves in quiescent prominences embedded in the solar corona', *Current Topics in Astrophysical and Fusion Plasma Research* (ed MF Heyn, W Kernbichler and HK Biernat) dbv-Verlag Graz, p130-135.
- 250 Oliver, JL, Ballester, JL, Hood, AW and Priest, ER (1993) 'Oscillations in coronal magnetic structures', *Current Topics in Astrophysical and Fusion Plasma*

- Research* (ed MF Heyn, W Kernbichler and HK Biernat) dbv-Verlag Graz, p77-82.
- 251 Inverarity, GW, Priest, ER and Heyvaerts, J (1995) 'Turbulent coronal heating. I Sheared arcade', *Astron. and Astrophys.* **293**, 913-926.
- 252 Inverarity, GW and Priest, ER (1993) 'Self-consistent turbulent coronal heating', *Current Topics in Astrophysical and Fusion Plasma Research* (ed MF Heyn, W Kernbichler and HK Biernat) dbv-Verlag Graz, p210-215.
- 253 Priest, ER (1994) 'Heating of X-ray bright points and other coronal structures', *Solar System Plasmas in Space and Time* (ed JL Burch and JH Waite), Geophysical Monograph 84, American Geophysical Union, p1-14.
- 254 Strachan, NR and Priest, ER (1994) 'A general family of nonuniform reconnection models with separatrix jets', *Geophys. Astrophys. Fluid Dynamics* **74**, 245-274.
- 255 Priest, ER, Parnell, CE and Martin, SF (1994) 'A Converging Flux Model for an X-ray bright point and an associated cancelling magnetic feature', *Astrophys. J.* **427**, 459-474.
- 256 Forbes, TG, Priest, ER and Isenberg, PA (1994) 'On the maximum energy release in flux-rope models of eruptive flares', *Solar Phys.* **150**, 245-266.
- 257 Priest, ER (1993) 'Axford and reconnection theory', *The Axford Colloquium* (ed E Keppler) Max Planck Publication MPAE-W-100-93-29, Lindau, p10.1-10.14.
- 258 Vekstein, GE, Priest, ER and Steele, CDC (1993) 'Magnetic energy dissipation via reconnective relaxation in astrophysical jets', *Astrophys. J. Supp.* **92**, 111-118.
- 259 Vekstein, GE and Priest, ER (1993) 'Magnetostatic equilibria and current sheets in a sheared magnetic field with an X-point', *Solar Phys.* **146**, 119-125.
- 260 Wolfson, R, Vekstein, GE and Priest, ER (1994) 'Nonlinear evolution of the coronal magnetic field under reconnective relaxation', *Astrophys. J.* **428**, 345-353.
- 261 Steele, CDC and Priest, ER (1994) 'Thermal equilibria in solar coronal magnetic loops - gravitational considerations', *Astron. Astrophys.* **292**, 291-303.
- 262 Priest, ER, Titov, VS and Rickard, GK (1995) 'The formation of magnetic singularities by nonlinear time-dependent collapse of an X-type magnetic field', *Phil. Trans. Roy. Soc. Lond.* **A 351**, 1-37.
- 263 Oliver, JL, Ballester, JL, Hood, AW and Priest, ER (1993) 'Oscillations of a quiescent solar prominence embedded in a hot corona', *Astrophys. J.* **409**, 809-821.
- 264 Priest, ER, Parnell, CE and Rickard, GJ (1993) 'Solar coronal heating by magnetic flux interaction', in *Cosmical Magnetism* (ed D Lynden-Bell) Kluwer Academic, p11-23.
- 265 Meerson, B, Steele, CDC, Milne, AM and Priest, ER (1993) 'On the nonlinear theory of the long-wavelength radiative condensation instability', *Phys. Fluids* **B5**, 3417-3431.
- 266 Inverarity, GW and Priest, ER (1995) 'Turbulent coronal heating. II Twisted flux tube', *Astron. and Astrophys.* **296**, 395-404.
- 267 Lin, J, Forbes, TG and Priest, ER (1994) 'Motions of loops and ribbons of two-ribbon flares', in *Solar Active Region Evolution: Comparing Models with Observations*, ASP Conference Series (ed K Balasubramaniam and G Simon) **68**, 202-209.
- 268 Lin, J, Forbes, TG, Priest, ER and Bungey, TN (1994) 'Models for the motions of flare loops and ribbons', *Solar Phys.* **159**, 275-299.
- 269 Oliver, R, Ballester, JL and Priest, ER (1993) 'Quiescent solar prominences: a 2D

- model', in *Physics of Solar and Stellar Coronae* (ed. J. Linsky and S. Serio), Kluwer Academic Publishers, Dordrecht, p187 - 190.
- 270 Oliver, R, Ballester, JL, Hood, AW and Priest, ER (1993) 'MHD waves in a solar prominence', in *Physics of Solar and Stellar Coronae* (ed. J. Linsky and S.Serio), Kluwer Academic Publishers, Dordrecht, p191 - 194.
- 271 Priest, ER (1994) 'Dynamic coronal heating by magnetic flux interaction', in *A New Look at the Sun with Emphasis on Advanced Observations of Coronal Dynamics and Flares* (ed S Enome and T Hirayama) Nobeyama Radio Obs. Rep No 360, p 93-98, Nobeyama, Japan.
- 272 Vekstein, GE, Priest, ER, Steele, CDC and Wolfson, R (1994) 'Magnetic coronal heating and global restructuring of the coronal magnetic field by reconnective relaxation', in *Global Coronal Active Region Evolution* (ed K Balasubramanian and G Simon) Proc. NSO Summer Workshop, p 194-201.
- 273 Priest, ER (1994) 'Working Group Report on Loops and Prominences', in *Mass Supply and Flows in the Solar Corona* (ed B Fleck, G Noci and G Poletto) Kluwer, Dordrecht, p 221-230.
- 274 Priest, ER, Titov, VS, Vekstein, GE and Rickard, GJ (1994) 'Steady linear X-point magnetic reconnection', *J. Geophys. Res.* **99**, 21467-21480.
- 275 Inverarity, G and Priest, ER (1993) 'Turbulent coronal heating in a twisted flux tube', *Magnetic Turbulence and Transport* (ed P Hennequin and M Dubois) Ed de Physique, France, p 229-234.
- 276 Rickard, GJ and Priest, ER (1993) 'The dynamics of driven magnetic reconnection in coronal arcades', *Solar Phys.* **151**, 107-127.
- 277 Tsinganos, K, Surlantis, G and Priest, ER (1992) 'Steady MHD flows in uniform gravity. A class of 2D exact solutions for coronal loops', in *Physics of Solar and Stellar Coronae* (ed JF Linsky and S Serio) Kluwer, 623-627.
- 278 Parnell, CE, Priest, ER and Golub, L (1994) 'The three-dimensional structure of X-ray bright points', *Solar Phys.* **151**, 57-74.
- 279 Oughton, S, Priest, ER and Matthaeus, WH (1994) 'The influence of a mean magnetic field on 3D MHD turbulence', *J. Fluid Mechanics* **280**, 95-117.
- 280 Cartledge, NP and Priest, ER (1994) 'The magnetic field structure for a polar-crown prominence', *Current Topics in Astrophysical and Fusion Plasma Research* (ed M Heyn, W Kernbichler and H Biernat) dbv-Verlag Graz, 30-35.
- 281 Bungey, TN and Priest, ER (1995) 'Current sheet configurations in potential and force-free fields', *Astron. Astrophys.* **293**, 215-224.
- 282 Inverarity, GW and Priest, ER (1994) 'Turbulent coronal heating by Alfvén waves', in *Current Topics in Astrophysical and Fusion Plasma Research* (ed M Heyn, W Kernbichler and H Biernat) dbv-Verlag Graz, 109-114.
- 283 Oughton, S, Matthaeus, WH and Priest, ER (1994) '3D MHD turbulence with a mean magnetic field', in *Current Topics in Astrophysical and Fusion Plasma Research* (ed M Heyn, W Kernbichler and H Biernat) dbv-Verlag Graz, 81-86.
- 284 Forbes, TG and Priest, ER (1995) 'Photospheric magnetic field evolution and eruptive flares', *Astrophys. J.* **446**, 377-389.
- 285 Parnell, C and Priest, ER (1993) 'A model of an X-ray bright point', in *The Solar Wind-Magnetosphere System* (ed HK Biernat, G Bachmaier, S Bauer, R Rijnbeek), Austrian Academy of Sciences, Vienna, p1-7.
- 286 Parnell, CE, Priest, ER and Titov, VS (1994) 'A model for X-ray bright points due to unequal cancelling flux sources', *Solar Phys.* **153**, 217-235.
- 287 Vekstein, GE and Priest, ER (1995) 'Nonlinear magnetic reconnection with collisionless dissipation', *Phys. of Plasmas.* **2**, 3169-3178
- 288 Priest, ER (1995) 'Magnetic reconnection in the Sun's atmosphere', in *Frontiers of*

- Astrophysics* (ed PB Lilje and P Maltby) Norwegian Academy of Sciences and Letters, Oslo, p191-204.
- 289 Vekstein, GE, Priest, ER and Wolfson, R (1994) 'Coronal magnetic field evolution under reconnective relaxation', *Space Sci. Revs.* **70**, 303-307.
- 290 Priest, ER (1995) 'Solar flares', in *Flares and Flashes* (ed J Greiner, H Duerbeck, R Gershberg) Springer-Verlag, Berlin, p3-13.
- 291 Rust, DM, Sakurai, T, Gaizauskas, V, Hoffman, A, Martin, SM, Priest, ER and Wang, J (1994) 'The preflare state', in *Recent Observations and Theories of Solar Flares* (ed V Gaizauskas and M Machado) Kluwer, Dordrecht, p 1-18.
- 292 Brown, JC, Correia, E, Farnik, F, Garcia, H, Henoux, JC, La Rosa, T, Machado, M, Nakajima, H and Priest, ER (1994) 'Energy release in solar flares', in *Recent Observations and Theories of Solar Flares* (ed V Gaizauskas and M Machado) Kluwer, Dordrecht, p 19-31.
- 293 Priest, ER (1995) 'On the nature of 3D reconnection', in *Small-Scale Structures in 3D Hydro and MHD Turbulence* (ed M Meneguzzi, A Pouquet and P Sulem), Springer-Verlag, Berlin, p303-318.
- 294 Priest, ER and Titov, VS (1996) 'Magnetic reconnection at three-dimensional null points', *Phil. Trans. Roy. Soc.* **354**, 2951-2992.
- 295 Cartledge, NP, Titov, VS and Priest, ER (1996) 'A model for the support of a polar-crown solar prominence', *Solar Phys.* **166**, 287-310.
- 296 Priest, ER and Demoulin, P (1995) 'Three-dimensional magnetic reconnection without null points. 1 Basic theory of magnetic flipping', *J. Geophys. Res.* **100**, 23,443-23,463.
- 297 Oliver, R, Hood, AW and Priest, ER (1996) 'MHD waves in solar coronal arcades', *Astrophys. J.* **461**, 424-444.
- 298 Demoulin, P, Priest, ER and Lonie, DP (1996) '3D magnetic reconnection without null points. 2 Application to twisted flux tubes', *J. Geophys. Res.* **101**, 7631-7646.
- 299 Demoulin, P, Henoux, JC, Priest, ER and Mandrini, CH (1996) 'Quasi-separatrix layers in solar flares. I Method', *Astron. Astrophys.* **308**, 643-655.
- 300 Priest, ER, van Ballegoijen, AA and Mackay, DH (1996) 'A model for dextral and sinistral prominences', *Astrophys. J.* **460**, 530-543.
- 301 Bungey, TN, Titov, VS and Priest, ER (1996) 'Basic topological elements of coronal magnetic fields', *Astron. Astrophys.* **308**, 233-247.
- 302 Priest, ER (1996) 'Reconnection of magnetic lines of force', in *Solar and Astrophysical MHD Flows* (ed K Tsinganos) Kluwer, Dordrecht, p151-170.
- 303 Priest, ER (1996) 'New developments in magnetic reconnection theory', in *Solar and Astrophysical MHD Flows* (ed K Tsinganos) Kluwer, Dordrecht, p171-194.
- 304 Inverarity, GW and Priest, ER (1995) 'Turbulent coronal heating. III Wave heating in coronal loops', *Astron. and Astrophys.* **302**, 567-577.
- 305 Heyvaerts, J, Priest, ER and Bardou, A (1996) 'Magnetic field diffusion in self-consistently turbulent accretion disks', *Astrophys. J.* **473**, 403-421.
- 306 Lima, JJG, Tsinganos, K and Priest, ER (1996) 'Two-dimensional MHD models for stellar winds', *Astro. Lett. and Communications* **34**, 281-287.
- 307 Surlantzis, G, Tsinganos, K and Priest, ER (1996) 'Separatrix characteristics in steady MHD flows', *Astrophys. Letts. and Comms.* **34**, 251-259.
- 308 Priest, ER (1996) 'New paradigms for solar prominences', in *Solar Drivers of Interplanetary Disturbances* (ed K Balasabramanian, S Keil and R Smartt) *Astron. Soc. Pacific. Pub. Series* **95**, 229-241.
- 309 Mackay, DH and Priest, ER (1996) 'A potential field model for dextral and sinistral

- filament channels', *Solar Phys.* **167**, 281-306.
- 310 Parnell, CE and Priest, ER (1995) 'A Converging Flux Model for the formation of
an X-ray bright point above a supergranule cell', *Geophys. and Astrophys. Fluid
Dynamics* **80**, 255-276.
- 311 Inverarity, GW and Priest, ER (1996) 'Plasma beta limits for magnetic annihilation
models', *Phys. Plasmas* **3**, 3591-3598.
- 312 Litvinenko, YE, Forbes, TG and Priest, ER (1996) 'A strong limitation on the
rapidity of flux-pile-up reconnection', *Solar Phys.* **167**, 445-448.
- 313 Parnell, CE, Smith, JM, Neukirch, T and Priest, ER (1996) 'The structure of 3D
magnetic neutral points', *Phys. Plasmas* **3**, 759-770.
- 314 Priest, ER, Bungey, TN and Titov, VS (1997) 'The 3D topology and interaction of
complex magnetic flux systems', *Geophys. Astrophys. Fluid Dynamics* **84**, 127-
163.
- 315 Priest, ER, Lonie, DP and Titov, VS (1996) 'Bifurcations of magnetic topology by
the creation or annihilation of null points', *J. Plasma Phys.* **56**, 507-530.
- 316 Priest, ER (1997) '3D reconnection in complex topologies', in *Magnetic
Reconnection in the Solar Atmosphere* (ed RD Bentley and JT Mariska) *Astron.
Soc. Pacific* **111**, 331-340.
- 317 Priest, ER (1996) 'Coronal heating by magnetic reconnection', *Astrophysics and
Space Science* **237**, 49-73.
- 318 Cartledge, NP, Titov, VS and Priest, ER (1996) 'A model for polar-crown
prominences', *Astro. Lett. & Comm.* **34**, 89-94.
- 319 Heyvaerts, J, Bardou, A and Priest, ER (1996) 'Interaction of turbulent accretion disks
with embedded magnetic fields', in *Solar and Astrophysical MHD Flows*' (ed K
Tsinganos) Kluwer, Dordrecht, p 659-672.
- 320 Neukirch, T and Priest, ER (1996) 'Some remarks on 2D incompressible stationary
reconnection', *Phys. Plasmas* **3**, 3188-3190.
- 321 Demoulin, P and Priest, ER (1997) 'The importance of photospheric intense flux
tubes for coronal heating', *Solar Phys.* **175**, 123-155.
- 322 Hood, AW, Ireland, J and Priest, ER (1996) 'Heating of coronal holes by phase
mixing', *Astron. and Astrophys.* **318**, 957-961.
- 323 Parnell, CE, Neukirch, T, Smith, JM and Priest, ER (1997) 'Structure and collapse
of 3D magnetic neutral points', *Geophys. Astrophys. Fluid Dyn.* **84**, 245-271.
- 324 Ireland, J and Priest, ER (1997) 'Phase-mixing in dissipative Alfvén waves', *Solar
Phys.* **173**, 31-51.
- 325 Demoulin, P, Henoux, JC, Mandrini, CH and Priest, ER (1997) 'Can we
extrapolate a magnetic field when its topology is complex?', *Solar Phys.* **174**,
73-89.
- 326 Priest, ER (1997) '3D magnetic reconnection in the solar corona', *Phys. Plasmas*
4, 1945-1952.
- 327 Titov, VS and Priest, ER (1997) 'Visco-resistive magnetic reconnection due to
steady inertia-less flows. Part 1 - exact analytical solutions', *J. Fluid Mechanics*
348, 327-347.
- 328 Inverarity, GW and Priest, ER (1996) 'Plasma beta limits for magnetic
reconnection', in *Magnetic Reconnection in the Solar Atmosphere* (ed RD
Bentley and JT Mariska) *Astron. Soc. Pacific* **111**, 296-299.
- 329 Lonie, DP and Priest, ER (1997) 'Bifurcation of two-dimensional magnetic fields',
Solar Phys.
- 330 Mackay, DH, Gaizauskas, V, Rickard, GJ and Priest, ER (1997) 'Force-free and
potential models of a filament channel in which a filament forms', *Astrophys. J.*
486, 534-549.

- 331 Mackay, DH, Priest, ER, Gaizauskas, V and van Ballegooijen, AA (1997) ‘Role of
helicity in the formation of intermediate filaments’, *Solar Phys.* **180**, 299-312.
- 332 Martin, CE, Heyvaerts, J and Priest, ER (1997) ‘Alfven wave support of a dwarf
molecular cloud I: An isothermal model’, *Astron. and Astrophys.* **326**, 1176-1186.
- 333 Priest, ER (1997) ‘A dynamic dextral-sinistral model for the structure and evolution
of prominence magnetic fields’, *Proc. IAU Colloquium No 167 “New
Perspectives on Solar Prominences”* (ed D Webb, D Rust and B Schmieder),
p453-462.
- 334 Priest, ER (1997) ‘Magnetic fields and coronal structures’, *Proc Fifth SOHO
Workshop on “The Corona and Solar Wind near Minimum Activity”* (ed A
Wilson and O Kjeldseth-Moe) ESA SP-404, p 93-102.
- 335 Priest, ER, Foley, CR, Heyvaerts, J, Arber, TD, Culhane, JL and Acton, LW (1998)
‘The nature of the heating mechanism for the diffuse solar corona’, *Nature* **393**,
545-547.
- 336 Priest, ER, Foley, CR, Heyvaerts, J, Arber, TD, Culhane, JL and Acton, LW (2000)
‘A method to determine the heating mechanisms of the solar corona’,
Astrophys. J. **539**, 1002-1022.
- 337 Lonie, DP, Priest, ER and Rucklidge, AM (2001) ‘Chaotic magnetic field lines in a
double-null configuration’, *J. Plasma Phys.*
- 338 Titov, VS and Priest, ER (1997) ‘Linear theory of steady X-point magnetic
reconnection’, *Adv. Space Res.* **19**, 1777-1780.
- 339 Mackay, DH, Gaizauskas, V and Priest, ER (1998) ‘Force-free models of a filament
channel in which a filament forms’, *Proc. IAU Colloquium No 167 “New
Perspectives on Solar Prominences”* (ed D Webb, B Schmieder and D Rust),
p286-289.
- 340 Demoulin, P, Mandrini, CH, van Driel-Gesztelyi, L, Priest, ER, Henoux, JC and
Schmieder, B (1997) ‘3D magnetic reconnection: example of an x-ray bright
point’, in *Magnetic Reconnection in the Solar Atmosphere* (ed RD Bentley and
JT Mariska) *Astron. Soc. Pacific* **111**, 49-55.
- 341 Watson, PG, Priest, ER and Craig, IJD (1998) ‘The roles of advection and diffusion
in planar magnetic merging solutions’ *Geophys. and Astrophys. Fluid Dyn.* **88**,
165-185.
- 342 Ireland, J, Walsh, RW, Harrison, RA and Priest, ER (1997) ‘Periodicities in active
regions’, *Proc Fifth SOHO Workshop on “The Corona and Solar Wind near
Minimum Activity”* (ed A Wilson and O Kjeldseth-Moe) ESA SP-404, p 433-438.
- 343 Walsh, RW, Ireland, J, Harrison, RA and Priest, ER (1997) ‘Active-region blinkers:
transient events in the solar atmosphere’, *Proc Fifth SOHO Workshop on “The
Corona and Solar Wind near Minimum Activity”* (ed A Wilson and O Kjeldseth-
Moe) ESA SP-404, p 717-722.
- 344 Mackay, DH and Priest, ER (1997) ‘Basic magnetic field configurations for filament
channels and filaments’, *Astron. and Astrophys. Trans.* **13**, 111-120.
- 345 Priest, ER (1999) ‘Heating the solar corona by magnetic reconnection’, *Astrophys.
and Space Sci.* **264**, 77-100.
- 345a van Ballegooijen, AA, Cartledge, NP and Priest, ER (1998) ‘Magnetic flux transport and
the formation of filament channels on the Sun’, *Astrophys. J.* **501**, 866-881.
- 346 Brown, DS and Priest, ER (1999) ‘Topological bifurcations in three-dimensional
magnetic fields’, *Proc. Roy. Soc. Lond. A*, **455**, 3931-3951.
- 347 Priest, ER (1998) ‘Our new view of the Sun according to SOHO’, in *Space Science
and the Long-Term Future of Space in Europe* (ed M Huber, B Battrock and TD
Guyenne) European Space Agency, Noordwijk, p 133-172.
- 348 Inverarity, GW and Priest, ER (1999) ‘Magnetic null points due to multiple sources of

- solar photospheric flux' *Solar Phys.* **186**, 99-121.
- 349 Titov, VS, Priest, ER and Lonie, DP (1999) 'On the nature of chaotic regions in
dissipative hydrodynamics and magnetohydrodynamics', *Phys. of Plasmas* **6**,
1374-1377.
- 350 Brown, DS and Priest, ER (1998) 'Topology of coronal magnetic fields in active
regions' *Pub. Astron. Soc. Pacific* **155**, 90-94.
- 351 Priest, ER (1999) 'Magnetic helicity and relaxation phenomena in the solar corona' in
Magnetic Helicity in Space and Laboratory Plasmas, Geophys.
Monograph 111 (eds MR Brown, RC Canfield and AA Pevtsov) p 141-148.
- 352 Ireland J, Walsh RW, Harrison RA and Priest ER (1999) 'A wavelet analysis of active
region oscillations', *Astron. and Astrophys.* **347**, 355-365.
- 353 Priest, ER (1999) 'How is the solar corona heated?', *Astron. Soc. Pacific* **158**, 321-
333.
- 354 Mackay, DH, Longbottom, AW and Priest, ER (1999) 'Dipped magnetic field
configurations associated with filaments and barbs', *Solar Phys.* **185**, 87-112.
- 355 Galsgaard, K, Mackay, DH, Priest, ER and Nordlund, A (1999) 'On the location of
energy release and temperature profiles along coronal loops', *Solar Phys.* **189**,
95-108.
- 356 Priest, ER, Titov, VS, Grundy, REG and Hood, AW (2000) 'Exact solutions for
reconnective magnetic annihilation', *Proc. Roy. Soc. Lond. A.* **456**, 1821-1849.
- 357 Birn, J, Gosling, JT, Hesse, M, Forbes, TG and Priest, ER (2000) 'Simulations of three-
dimensional reconnection in the solar corona', *Astrophys. J* **541**, 1078-1095.
- 358 Priest, ER and Schrijver, CJ (1999) 'Aspects of three-dimensional magnetic
reconnection', *Solar Phys.* **190**, 1-24.
- 359 Galsgaard, K, Priest, ER and Nordlund, A (2000) 'Three-dimensional separator
reconnection - How does it occur?', *Solar Phys.* **193**, 1-16.
- 360 Priest, ER (2000) 'Solar flare theory and the status of flare understanding', *Astron. Soc.
Pacific* **206**, 13-26.
- 362 Brown, DS and Priest, ER (1999) 'The topological behaviour of stable magnetic
separators' *Solar Phys.* **190**, 25-33.
- 363 Priest, ER (2001) 'Three-dimensional reconnection on the Sun', *Earth, Planets and
Space* **53**, 483-490.
- 364 Lima, JGG, Priest, ER and Tsinganos, K (2001) 'An analytical MHD stellar wind
model with latitudinal dependences', *Astron. Astrophys.* **371**, 240-249.
- 365 Neukirch, T and Priest, ER (2000) 'Generalization of a special class of time-dependent
solutions of the two-dimensional MHD equations to arbitrary pressure profiles'
Phys. of Plasmas **7**, 3105-3107.
- 366 Priest, ER and Forbes, TG (2002) 'The magnetic nature of solar flares', *Astron. and
Astrophys. Rev.* **10**, 313-377.
- 367 Priest, ER (2002) 'Reconnection theory in solar physics', *Highlights in Astron.* **12** (ed H
Rickman), Astron. Soc. Pacific, San Francisco
- 368 Brown, DS and Priest, ER (2001) 'The topological behaviour of 3D null points in the
Sun's corona', *Astron. and Astrophys.* **367**, 339-346.
- 369 Mackay, DH, Galsgaard, K, Priest, ER and Foley, CR (2000) 'How accurately can we
determine the coronal heating mechanism in the large-scale solar corona?', *Solar
Phys.* **193**, 93-116.
- 370 Priest, ER (2001) 'Surprises from Our Sun', *Rev. Modern Astronomy* **14**, 133-160.
- 371 Priest, ER and Forbes, TG (2000) 'Magnetohydrodynamics', *Encyclopedia of
Astronomy and Astrophysics*, Inst. of Phys. Publishing, Bristol, UK, 1535 – 1543.
- 372 Priest, ER (2001) 'MHD: the mathematics of space weather', *The Sun-Earth
Connection and Space Weather*, (eds M Candidi, M Storini and U Villante), Italian

- Society of Physics, Bologna, p 7-52.
- 373 Priest, ER (2001) 'The role of the Sun's magnetic field', *Magnetic fields across the Hertzprung-Russell diagram*, ASP Conf. Ser. **248**, 25-34 (eds. G. Mathys, S.K. Solanki & D.T. Wickramasinghe) San Francisco, ASP.
- 374 Priest, ER (2001) 'Solar Orbiter Science', in *Solar Encounter: the First Solar Orbiter Workshop*, ESA SP-493, 127-133.
- 375 Priest, ER, Hood, AW and Bewsher, D (2002) 'The nature of blinkers and the solar transition region', *Solar Phys.* **205**, 249-264.
- 376 Lima, JJG, Sauty, C, Iro, N, Tsinganos, K and Priest, ER (2001) 'Application of an analytical MHD wind model with latitudinal dependences to the solar wind', in *Solar Encounter: the First Solar Orbiter Workshop*, ESA SP-493, 269-274.
- 377 Mellor, C, Priest, ER and Titov, VS (2002) 'Exact solutions for spine reconnective magnetic annihilation', *Geophys. & Astrophys. Fluid Dynamics* **96**, 153-171.
- 378 Priest, ER, Heyvaerts, JF and Title, AM (2002) 'A Flux Tube Tectonics Model for solar coronal heating driven by the magnetic carpet', *Astrophys. J.*, **576**, 533-551.
- 379 Brown, DS and Priest, ER (2000) 'Topological differences and similarities between force-free and potential models of coronal magnetic fields', *Solar Phys.* **194**, 197-204.
- 380 Brown, DS, Parnell, CE, DeLuca, E, McMullen, R, Golub, L and Priest, ER (2002) 'Magnetic structure and reconnection of X-ray bright points in the solar corona', *Advances in Space Science* **29**, 1093-1099.
- 381 Mellor, C and Priest, ER (2004) 'Exact MHD solutions near null points' in *Physics of Magnetic Reconnection in Plasmas* (ed M Ugai) Research Signpost, Kerala, p 69-102.
- 382 Mackay, DH, Priest, ER and Lockwood, M (2002) 'The evolution of the Sun's open magnetic flux - I. A single bipole', *Solar Phys.* **207**, 291-308.
- 383 Galsgaard, K, Priest, ER and Titov, VS (2003) 'Numerical experiments on wave propagation towards a 3D null point due to rotational motion', *J. Geophys. Res.* **108**, 10.1-10.9.
- 384 Mellor, C, Titov, VS and Priest, ER (2002) 'Linear collapse of spatially linear 2D null points', *J. Plasma Phys.* **68**, 221-235.
- 385 Priest, ER (2003) 'Current sheets in the Sun's corona', in *Tubes, Sheets and Singularities in Fluid Dynamics* (ed K Bajer and HK Moffatt) Kluwer, Dordrecht, Holland, p 115-124.
- 386 Mackay, DH, Priest, ER and Lockwood, M (2002) 'The evolution of the Sun's open magnetic flux - II. Full solar cycle simulations', *Solar Phys.* **209**, 287-309.
- 387 Zuccarello, F, Contarino, L, Romano, P and Priest, ER (2003) 'Flare activity in solar active region 8421 observed by the TRACE satellite', *Astron. & Astrophys.* **402**, 1085-1102.
- 388 Beveridge, C, Priest, ER and Brown, DS (2002) 'Magnetic topologies due to two bipolar regions', *Solar Phys.* **209**, 333-347.
- 389 Beveridge, C, Longcope, DW and Priest, ER (2003) 'A model for elemental coronal flux tubes', *Solar Phys.* **216**, 27-40.
- 390 Longcope, DW, Brown, DS and Priest, ER (2003) 'On the distribution of magnetic null points above the solar photosphere' *Phys. Plasmas* **10**, 3321-3334.
- 391 Priest, ER, Hornig, G and Pontin, DI (2003) 'On the nature of three-dimensional magnetic reconnection', *J. Geophys. Res.* **108**, (A7), 1285, doi:10.1029/2002JA009812.
- 392 Priest, ER (2003) 'Solar Magnetohydrodynamics' in *Dynamic Sun* (ed BN Dwivedi) Cambridge University Press, Cambridge UK, p217-237.
- 393 Priest, ER (2003) 'Theory of 3D reconnection and coronal heating', *Advances in Space*

- Research*, **32**, 1021-1027.
- 394 Priest, ER (2003) 'Sunspots reveal their dark side', *Phys. World* **16**, 19-20
- 395 Priest, ER, Longcope, DW and Titov, VS (2003) 'Binary reconnection and the heating
of the solar corona', *Astrophys. J.* **598**, 667-677.
- 396 Hornig, G and Priest, ER (2003) 'Evolution of magnetic flux in an isolated reconnection
process', *Phys. Plasmas* **10**, 2712-2721.
- 397 Linton, M and Priest, ER (2003) '3D reconnection of untwisted magnetic flux tubes',
Astrophys. J. **595**, 1259-1276.
- 398 Priest, ER (2006) 'Creativity in science', Proc. Conf. on Creativity and Imagination (ed
T Hart)
- 399 Close, RM, Parnell, CE, Mackay, DH and Priest, ER (2003) 'Statistical flux tube
properties of 3D magnetic carpet fields', *Solar Phys.* **212**, 251-275.
- 400 Pontin, DI, Priest, ER and Longcope, DW (2003) 'A framework for understanding the
topology of complex coronal structures', *Solar Phys.* **212**, 319-342.
- 401 Mellor, C, Titov, VS and Priest, ER (2003) 'Linear collapse of spatially linear 3D
potential null points', *Geophys. Astrophys. Fluid Dynamics* **97**, 489-505.
- 402 Beveridge, C, Priest, ER and Brown, DS (2004) 'Magnetic topologies in the solar
corona due to four discrete photospheric flux regions', *Geophys. Astrophys. Fluid
Dynamics* **98**, 429-445.
- 403 Priest, ER and Pontin, DI (2004) 'Magnetic Reconnection' in *The Sun and Heliosphere
as an Integrated System* (ed G Poletto and ST Suess) Kluwer, Dordrecht, Holland,
p 397-420.
- 404 Mellor, C, Gerrard, C, Galsgaard, K, Hood, AW and Priest, ER (2005) 'Numerical
simulations of the flux tube tectonics model for coronal heating', *Solar Phys.* **227**,
39-60.
- 405 Close, R. M., Heyvaerts, J. F., and Priest, E.R. (2004) 'Effects of complexity on the
Flux-Tube Tectonics Model'. *Solar Phys.* **225**, 267-292.
- 406 Close, R. M., Parnell, C. E., and Priest, E.R. (2004) 'Separators in 3D magnetic fields,
Solar Phys. **225**, 21-46.
- 407 Close, R. M., Parnell, C. E., and Priest, E.R. (2005) 'Domain structures in complex 3D
magnetic fields', *Geophys. Astrophys. Fluid Dynam.* **99**, 513-534.
- 408 Close, R.M., Parnell, C.E., Longcope, D.W., and Priest, E.R. (2005) 'Coronal flux
recycling times', *Solar Phys.* **231**, 45-70.
- 409 Close, R.M., Parnell, C.E., Longcope, D.W., and Priest, E.R. (2004) 'Recycling of the
solar corona's magnetic field', *Astrophys. J.* **612**, L81-L84.
- 410 Pontin, D.I., Hornig, G. and Priest, E.R. (2004) 'Kinematic reconnection at a magnetic
null point: Spine-aligned current', *Geophys. Astrophys. Fluid Dynamics* **98**, 407-
428.
- 411 Priest, ER (2006) 'Our Magnetic Sun', *The Many Scales in the Universe* (ed JC del
Toro Iniesta, EJ Alforo, JG Gorgas, E Salvadore-Sole, H Butcher) Springer,
Dordrecht, 197-210.
- 412 Wilmot-Smith, A.L., Priest, E.R. and Hornig, G. (2005) 'Magnetic diffusion and the
motion of field lines', *Geophys. Astrophys. Fluid Dynamics* **99**, 177-197.
- 413 Pontin, D.I., Hornig, G. and Priest, E.R. (2005) 'Kinematic reconnection at a magnetic
null point: Fan-aligned current', *Geophys. Astrophys. Fluid Dynamics* **99**, 77-93.
- 414 Priest, E.R. (2004) 'Our Enigmatic Sun', Proc. IAU vol 2004 No IAUS223, *Multi-
Wavelength Investigations of Solar Activity* (ed E Benelenskaya), p715-722.
- 415 Priest, E.R., Longcope, D.W. and Heyvaerts, J. (2005) 'Coronal heating at separators
and separatrices', *Astrophys. J.* **624**, 1057-1071.
- 416 Pontin, D.I., Galsgaard, K., Hornig, G. and Priest, E.R. (2005) 'A fully
magnetohydrodynamic simulation of 3D non-null reconnection', *Phys.*

- Plasmas*, **12**, 052307.
- 417 Maclean, R.C., Beveridge, C., Longcope, D.W., Brown, D.S. and Priest,
E.R. (2005), 'A topological analysis of the magnetic breakout model for an
eruptive solar flare', *Proc. R. Soc. A*, **461**, 2099--2120.
- 418 Priest, E.R. (2005) 'Chromospheric and Coronal Magnetic Fields', Proc. Int. Conf. on
Chromospheric and Coronal Magnetic Fields, Lindau (ed DS Innes, A. Lagg &
S.K. Solanki) ESA SP-596, Dordrecht, p 47.1-47.12.
- 419 Priest, E.R. (2006) 'Our Enigmatic Sun', *Recent Advances in Astronomy and
Astrophysics* (ed N. Solomos) American Institute of Physics, Melville USA.
- 420 Maclean, R.C., Beveridge, C., Hornig, G. and Priest, E.R. (2006) 'Coronal magnetic
topologies in a spherical geometry: I. Two bipolar flux sources', *Solar Phys.* **235**,
259-280.
- 421 Wilmot-Smith, A.L., Martens, P.C.H., Nandy, D., Priest, E.R., Tobias, S.M.,
2005) 'Low-order stellar dynamo models', *Mon. Not. Roy. Astr. Soc.* **363**,
1167-1172.
- 422 Wilmot-Smith, A.L., Hornig, G. and Priest, E.R. (2006) 'Dynamic non-null
reconnection in three dimensions: I. Particular solutions', *Proc. Roy. Soc.*, **462**,
2877-2895.
- 423 Von Rekowski, B., Parnell C.E. and Priest, E.R. (2006) 'Solar coronal heating by
magnetic cancellation: I. Connected equal bipoles', *Mon. Not. Roy. Astr. Soc.*
366, 125-136.
- 424 Baty, H., Priest, E.R. and Forbes, T.G. (2009) 'Effect of nonuniform resistivity in
Petschek reconnection', *Phys. of Plasmas* **13**, 022312/1-7.
- 425 Von Rekowski, B., Parnell C.E. and Priest, E.R. (2006) 'Solar coronal heating by
magnetic cancellation: II. Disconnected and unequal bipoles', *Mon. Not. Roy.
Astr. Soc.* **369**, 43-56.
- 426 Maclean, R.C., Beveridge, C. and Priest, E.R. (2006) 'Coronal magnetic topologies in a
spherical geometry II. Four balanced flux sources', *Solar Phys.* **238**, 13-27 (doi:
10.1007/s11207-006-0179-1).
- 427 Maclean, R.C., Beveridge, C., Longcope, D.W., Brown, D.S. and Priest,
E.R. (2004) 'A topological analysis of the magnetic breakout model for an
eruptive solar flare', in *Coronal Heating* ESA SP-575: SOHO 15 (ed R.W. Walsh,
J. Ireland, D. Danesy and B. Fleck) p 485-490.
- 428 Chen, P.F, and Priest, E.R. (2006) 'Transition-region explosive events: reconnection
modulated by p-mode waves', *Solar Phys.* **238**, 313-327.
- 429 Maclean, R. C., Parnell, C. E. , De Moortel, I., Buechner, J. and Priest, E.
R. (2006) "Understanding Magnetic Structure in the Solar Corona
through Topological Analysis", Proceedings of the SOHO 17 Workshop:
10 Years of SOHO and Beyond, ESA SP-617, p156.1-4.
- 430 Maclean, R.C. and Priest, E.R. (2007) 'Topological aspects of global magnetic field
behaviour in the solar corona', *Solar Phys.* **243**, 171-191.
- 431 Haynes, A.L., Parnell, C.E. Galsgaard, K. and Priest, E.R. (2007)
'Magnetohydrodynamic evolution of magnetic skeletons', *Proc. Royal Soc. Lond. A*,
463, 1097-1115.
- 432 Wilmot-Smith, A.L. and Priest, E.R. (2007) 'Flux tube disconnection' -An
example of 3D reconnection'. *Physics of Plasmas* **14**, 102903 (1-9).
- 433 Regnier, S. and Priest, E.R. (2007) 'Nonlinear force-free model of the
solar corona I. Two active region with very different structure', *Astron.
& Astrophys.*, **468**, 701-709.
- 434 Regnier, S. and Priest, E.R. (2007) 'Free magnetic energy in solar active
regions above the minimum-energy relaxed state', *Ap. J. Letters* **669**,

L53 - L56.

- 435 Longcope, D.W. and Priest, E.R. (2007) 'Fast magnetosonic waves launched
by transient, current sheet reconnection', *Phys. Plasmas* **14**, 122905 (1-11)
- 436 Priest, E.R., Lockwood, M, Solanki, S, Wolfendale, A and Coustenis, A (2007) 'Does
the Sun affect the Earth's climate?' *Astronomy and Geophysics Letter* **48**, 3.7.
- 437 Maclean, R.C., Buchner, J and Priest, E.R. (2009) 'The topological skeleton as a
predictor of current concentrations and possible 3D magnetic reconnection sites in the
solar atmosphere' *Astron. & Astrophys.*
- 438 Priest, E.R. (2007) 'The Solar Atmosphere' in *Handbook of the Solar-Terrestrial
Environment* (ed Y Kamide and A.C.-L. Chian) Springer, Berlin, p 56-95.
- 439 Regnier, S., Priest, E.R. and Hood, A.W. (2008) 'Coronal Alfvén speeds in an isothermal
atmosphere. I. Global properties' *Astron. & Astrophys.* **491**, 297-309.
- 440 Wilmot-Smith, A.L., Hornig, G and Priest, E.R. (2009) 'Dynamic non-null magnetic
reconnection in three dimensions. II-Composite solutions', *Geophys. Astrophys.
Fluid Dyn.* **103**, 515-534.
- 441 Priest, E. R. (2008) 'Highlights from Hinode', *ASP Conf. Series* **397**, 147-152.
- 442 Titov, V. S., Forbes, T. G., Priest, E. R., Mikic, Z. and Linker, J. A. (2009) 'Slip-
squashing factors as a measure of three-dimensional magnetic reconnection'
Astrophys. J. **693**, 1029-1044.
- 443 Baty, H, Forbes, T. G. and Priest, E. R. (2009) 'Petschek reconnection with a
nonlocalized resistivity' *Phys. Plasmas* **16**, 012102.
- 444 Priest, E. R. (2009) 'Nonlinear plasma physics of the solar corona', *Modern
Challenges in Nonlinear Plasma Physics* (ed Dimitris Vassiliadis and Loukas
Vlahos)
- 445 Priest, E. R. (2009) 'Recent advances in understanding coronal heating' *J. Atmos.
Solar-Terr. Phys.*
- 446 Priest, E. R. (2009) 'The solar-stellar connection: our new Sun'
- 447 Priest, E. R. and Pontin, D. I. (2010) 'Three-dimensional null point reconnection
regimes', *Phys. Plasmas*, in press. (15 pages)