



Solar and Astrophysical Magnetohydrodynamic Flows

Edited by

Kanaris C. Tsinganos

NATO ASI Series

Series C: Mathematical and Physical Sciences – Vol. 481

1996, XLI, 742 p.

Printed book

Hardcover

79,95 € | £72.00 | \$99.00

[1]85,55 € (D) | 87,95 € (A) | CHF

106,60

Softcover

64,99 € | £54.99 | \$79.99

[1]69,54 € (D) | 71,49 € (A) | CHF

77,00

eBook

53,49 € | £43.99 | \$59.99

[2]53,49 € (D) | 53,49 € (A) | CHF

61,50

Available from your library or
springer.com/shop

MyCopy [3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Kanaris Tsinganos (Ed.)

Solar and Astrophysical Magnetohydrodynamic Flows

Series: **Nato Science Series C:**

Modern observations, including recent ones with the Hubble Space Telescope, have revealed that the Universe is replete with plasma outflows from all kinds of objects, ranging from stars in all their variety to galaxies. In this masterly survey of plasma astrophysics, written by leading practitioners, the first 15 articles in Part I deal with the use of the MHD approach in several key problems of solar plasma, such as magnetoconvection and magnetic field generation, sunspots and coronal loops, magnetic nonequilibrium and coronal heating, coronal mass ejections, the acceleration of the solar wind, and stellar winds across the Main Sequence. The following 16 articles of Part II deal with the use of the same MHD approach in several central and puzzling aspects of more distant astrophysical plasmas, such as the dynamics of the interstellar medium, collimated outflows from young stellar objects and accretion disks, molecular outflows and jets associated with enigmatic binaries and symbiotic stars, relativistic flows associated with superluminal microquasars in our own galaxy, astrophysical jets from nearby galaxies, or remote active galactic nuclei and quasars, probably fuelled by supermassive black holes. The emphasis throughout is on the striking underlying similarities in the physics of all these problems. Audience: Indispensable for solar physicists and astrophysics alike. An ideal textbook for graduate students in physics and astrophysics.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

