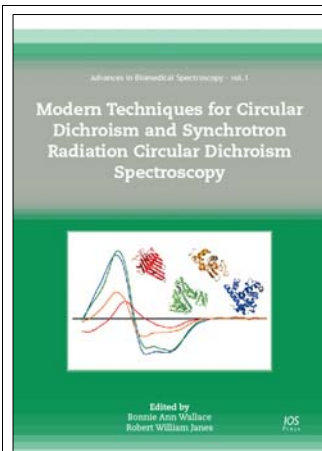


New IOS Press Publication



Modern Techniques for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy

Advances in Biomedical Spectroscopy - Volume 1

Editors: B.A. Wallace and R.W. Janes
March 2009, approx. 256 pp., hardcover
ISBN: 978-1-60750-000-1
Price: US\$140 / €95 / £86

This timely book provides a comprehensive and up-to-date account of circular dichroism (CD) spectroscopy and its application to structural biology. In particular, the newer methods of synchrotron radiation circular dichroism (SRCD) and linear dichroism (LD) are fully covered. Use of SRCD allows data between 190 and 160nm to be measured, where additional information content is obtained plus the ability to characterise biomolecules in diverse environments. The method has value in protein fold recognition and potential for use in structural genomics.

The editors, Professor B.A. Wallace of Birkbeck College, University of London and Dr. R.W. Janes of Queen Mary College, University of London in addition to their wide research experience have extensive experience of running and teaching internationally at workshops on CD. Based on this experience, practical aspects, such as instrumentation, calibration sample preparation and analyses are covered comprehensively in the book, which has been undertaken partly as a result of demand by those who participated in the workshops or by those who did not themselves participate but heard excellent reports of the workshops. The book will be of value to research workers in the general area of biophysics, to graduate students and to others entering research.

Professor Wallace has been awarded the AstraZeneca Award for 2010 by the Biochemical Society for her pioneering work on new methods and applications in CD and SRCD spectroscopy for biological studies.

This book is the first volume in a new series published by IOS Press entitled Advances in Biological and Biomedical Spectroscopy, the series being edited by Dr. Parvez I. Haris of De Montfort University Leicester. Each volume in the series will cover a specific spectroscopic technique for the study of biology and biological molecules. The next volume in the series will be on Fourier Transform Infra-red Spectroscopy and will be edited by Dr. P.I. Haris and by Dr. A. Barth of Stockholm University.

Visit our website for more information or online ordering:
www.iospress.nl / www.booksonline.iospress.nl

Contents:

Preface	B.A. Wallace and R.W. Janes
An Introduction to Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy	R.W. Janes and B.A. Wallace
Measurement of Circular Dichroism and Related Spectroscopies with Conventional and Synchrotron Light Sources: Theory and Instrumentation	J.C. Sutherland
Calibration Techniques for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopies	A.J. Miles and B.A. Wallace
Sample Preparation and Good Practice in Circular Dichroism Spectroscopy	S.M. Kelly and N.C. Price
Sample Preparation and Good Practice in Synchrotron Radiation Circular Dichroism Spectroscopy	A.J. Miles and B.A. Wallace
Reproducible Circular Dichroism Measurements for Biopharmaceutical Applications	J. Ravi, A.E. Hills and A.E. Knight
Synchrotron Radiation Circular Dichroism Spectroscopy: Applications in the Biosciences	A.J. Miles and B.A. Wallace
Linear Dichroism Spectroscopy: Techniques and Applications	A. Rodger
Methods of Analysis for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy of Proteins and the DichroWeb Server	L. Whitmore and B.A. Wallace
Reference Datasets for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy of Proteins	R.W. Janes
Ab Initio Calculations for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy of Proteins	B.M. Bulheller and J.D. Hirst
The Protein Circular Dichroism Data Bank: A Resource for Data Archiving, Sharing, Validation and Analysis	B.A. Wallace, L. Whitmore and R.W. Janes
Appendix: Selected Websites and Monographs References for CD and SRCD of Biomolecules	

**-ORDER ONLINE AT WWW.IOSPRESS.NL OR FILL IN THIS FORM-
Select the title of your choice and click on *order online*.**

Order form:

IOS Press
Nieuwe Hemweg 6B
1013 BG Amsterdam
The Netherlands
Tel.: +31 20 688 3355
Fax: +31 20 687 0039
Email: market@iospress.nl
URL: www.iospress.nl

Gazelle Book Services Ltd
White Cross Mills
Hightown
Lancaster LA1 4XS
United Kingdom
Tel.: +44 1524 68765
Fax: +44 1524 63232
Email: sales@gazellebooks.co.uk
URL: www.gazellebooks.co.uk

IOS Press, Inc.
4502 Rachael Manor Drive
Fairfax, VA 22032
USA
Tel.: +1 703 323 5600
Fax: +1 703 323 3668
Email: sales@iospress.com
URL: www.iospress.com

If you would like to order one or more copies of the above, please fill in this order form and send it back to:

IOS Press, Promotion Department, Nieuwe Hemweg 6B, 1013 BG, Amsterdam, The Netherlands.

I would like to order copies of *Modern Techniques for Circular Dichroism and Synchrotron Radiation Circular Dichroism Spectroscopy* (US\$140 / €95 / £86)

Please bill me

Please charge my credit card

Amer. Express Euro/Master Visa
Exp. Date Security code
Card no.

Name: _____
Address: _____
City/Zipcode: _____
Country: _____
Fax: _____
Date: _____
Signature: _____
Vat no.: _____

Visit our website for more information or online ordering:
www.iospress.nl / www.booksonline.iospress.nl