

Materials Science : Characterization and Evaluation of Materials

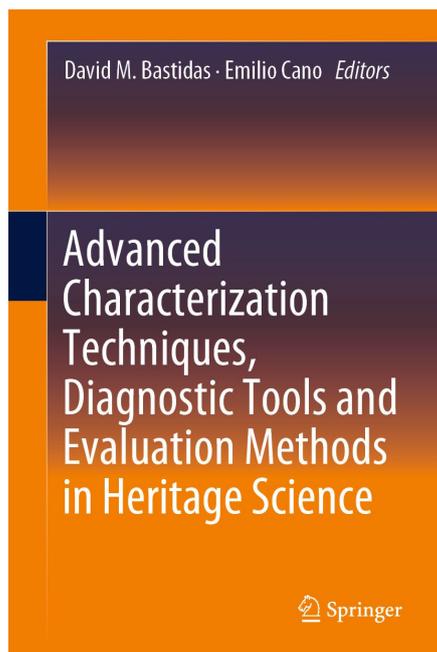
Bastidas, David M., Cano, Emilio (Eds.)

# Advanced Characterization Techniques, Diagnostic Tools and Evaluation Methods in Heritage Science

- Includes advanced scientific characterization techniques and diagnostic tools for the evaluation of cultural heritage
- Includes the preservation of paintings (canvas), metal sculptures and fragments, as well as the examination of stone, ceramics, and concrete materials
- Offers a handbook for conservators-restorers, which they can use during their daily work

This book details the application of advanced characterisation techniques and diagnostic tools to heritage science, including the evaluation of heritage assets' condition, their preservation and restoration. It examines the use of electrochemical techniques in conservation science, with a particular focus on how to solve problems in taking on-site measurements. Specifically, it introduces readers to a new gel polymer (GPE) electrochemical cell developed by the authors for the characterisation of metallic heritage objects. Other techniques used to characterise and monitor reinforced concrete objects in more modern buildings are also covered, including non-destructive electrochemical techniques that allow steel corrosion to be assessed in these structures, and in those that are used to protect and repair such buildings.

Order online at [springer.com/booksellers](https://www.springer.com/booksellers)  
Springer Nature Customer Service Center LLC  
233 Spring Street  
New York, NY 10013  
USA  
T: +1-800-SPRINGER NATURE  
(777-4643) or 212-460-1500  
[customerservice@springernature.com](mailto:customerservice@springernature.com)



Springer

1st  
edition

1st ed. 2018, XI, 105 p.

**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-319-75315-7

\$ 149,99

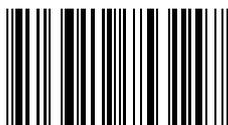
Available

**Discount group**

Professional Books (2)

**Product category**

Monograph



ISBN 978-3-319-75315-7 / BIC: TGMT / SPRINGER NATURE: SCZ17000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.