



# Techniques for Virtual Palaeontology (Analytical Methods in Earth and Environmental Science)

*Mark Sutton, Imran Rahman, Russell Garwood*

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Virtual palaeontology, the use of interactive three-dimensional digital models as a supplement or alternative to physical specimens for scientific study and communication, is rapidly becoming important to advanced students and researchers. Using non-invasive techniques, the method allows the capture of large quantities of useful data without damaging the fossils being studied

*Techniques for Virtual Palaeontology* guides palaeontologists through the decisions involved in designing a virtual palaeontology workflow and gives a comprehensive overview, providing discussions of underlying theory, applications, historical development, details of practical methodologies, and case studies. Techniques covered include physical-optical tomography (serial sectioning), focused ion beam tomography, all forms of X-ray CT, neutron tomography, magnetic resonance imaging, optical tomography, laser scanning, and photogrammetry. Visualization techniques and data/file formats are also discussed in detail.

**Readership:** All palaeontologists and students interested in three-dimensional visualization and analysis.

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