



Paleontological Data Analysis

By *Øyvind Hammer, David A. T. Harper*

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During the last 10 years numerical methods have begun to dominate paleontology. These methods now reach far beyond the fields of morphological and phylogenetic analyses to embrace biostratigraphy, paleobiogeography, and paleoecology. *Paleontological Data Analysis* explains the key numerical techniques in paleontology, and the methodologies employed in the software packages now available.

- Following an introduction to numerical methodologies in paleontology, and to univariate and multivariate techniques (including inferential testing), there follow chapters on morphometrics, phylogenetic analysis, paleobiogeography and paleoecology, time series analysis, and quantitative biostratigraphy
- Each chapter describes a range of techniques in detail, with worked examples, illustrations, and appropriate case histories
- Describes the purpose, type of data required, functionality, and implementation of each technique, together with notes of caution where appropriate
- The book and the **accompanying PAST software package** (see www.blackwellpublishing.com/hammer) are important investigative tools in a rapidly developing field characterized by many exciting new discoveries and innovative techniques
- An invaluable tool for all students and researchers involved in quantitative paleontology

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"I would definitely encourage students, later-year undergraduate or graduate, embarking on palaeontological research involving more than the most trivial statistics to buy this book, not just rely on the library copy."

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From the Back Cover

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Paleontological Data Analysis explains the key numerical techniques in paleontology, and the methodologies employed in the software packages now available. Following an introduction to numerical methodologies in paleontology, and to univariate and multivariate techniques (including inferential testing), are chapters on morphometrics, phylogenetic analysis, paleobiogeography and paleoecology, time series analysis, and quantitative biostratigraphy. Each chapter describes a range of techniques in detail, with worked examples, illustrations, and appropriate case histories. The purpose, type of data required, functionality, and implementation of each technique are described, together with notes of caution where appropriate. The book and the accompanying PAST software package – available through **www.blackwellpublishing.com/hammer** – are important investigative tools in a rapidly developing field characterized by many exciting new discoveries and innovative techniques.

Paleontological Data Analysis is an invaluable tool for all students and researchers involved in quantitative paleontology.

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