



Biological Diversity provides an up-to-date, authoritative review of the methods of measuring and assessing biological diversity, together with their application. The book's emphasis is on quantifying the variety, abundance, and occurrence of taxa, and on providing objective and clear guidance for both scientists and managers. This is a fast-moving field and one that is the focus of intense research interest. However, the rapid development of new methods, the inconsistent and sometimes confusing application of old ones, and the lack of consensus in the literature about the best approach means that there is a real need for a current synthesis.

Biological Diversity covers fundamental measurement issues such as sampling, re-examines familiar diversity metrics (including species richness, diversity statistics, and estimates of spatial and temporal turnover), discusses species abundance distributions and how best to fit them, explores species occurrence and the spatial structure of biodiversity, and investigates alternative approaches used to assess trait, phylogenetic, and genetic diversity. The final section of the book turns to a selection of contemporary challenges such as measuring microbial diversity, evaluating the impact of disturbance, assessing biodiversity in managed landscapes, measuring diversity in the imperfect fossil record, and using species density estimates in management and conservation.

This accessible text is suitable for graduate students, professional researchers, and practitioners in the fields of ecology and conservation biology. It will be essential reading for all researchers working on biological diversity and of relevance and use to environmental managers.

Cover illustration: Trachildoe (hummingbirds),
from *Art Forms in Nature*, 1904, by Ernst Haeckel.

OXFORD
UNIVERSITY PRESS

www.oup.com

ISBN 978-0-19-958067-5



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