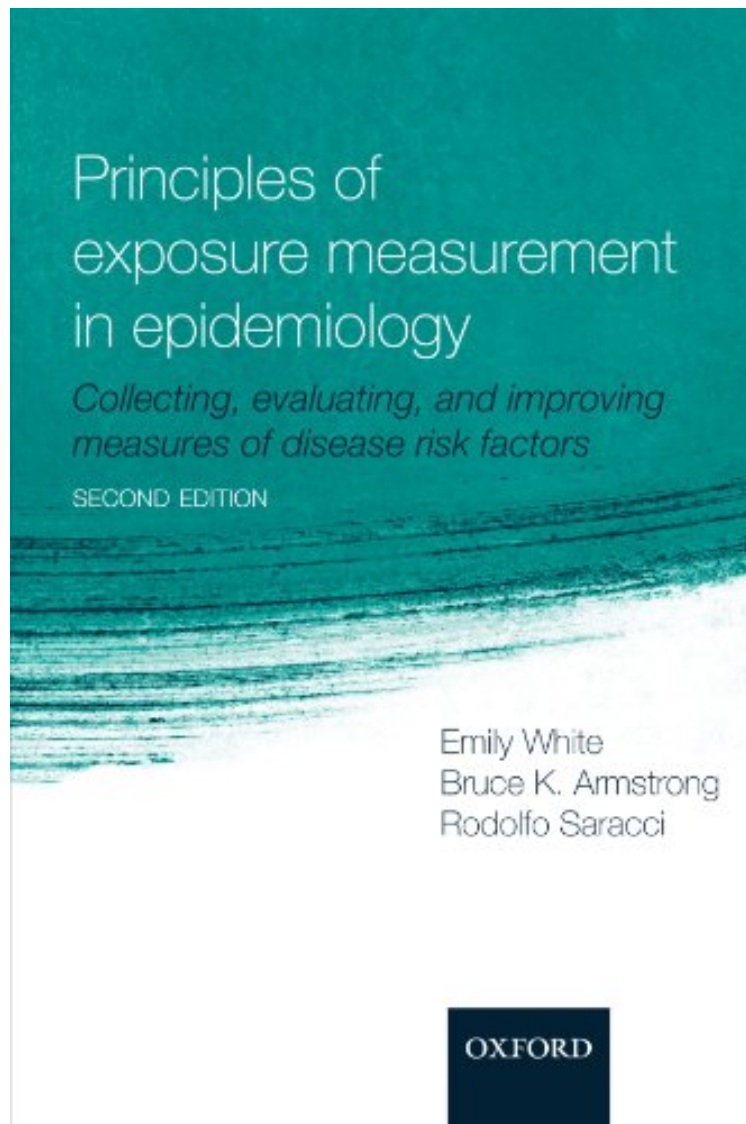


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# Principles of Exposure Measurement in Epidemiology: Collecting, Evaluating and Improving Measures of Disease Risk Factors

*Emily White, Bruce K Armstrong, Rodolfo Saracci*  
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This is a great reference text for researchers designing surveys, taking lab measurements, observations, or any type of data collection. It offers practical information on how to think about turning your exposures of interest into measurable variables.

The second edition of this internationally acclaimed title is the ideal handbook for those involved in conducting epidemiological research. The objective of most epidemiological studies is to relate exposure to putative causal agents to the occurrence of a particular disease. The achievement of this objective depends critically on accurate measurement of exposure. This book reviews principles and techniques that can be applied to measuring a wide range of exposures, including demographic, behavioral, medical, genetic, and environmental factors. The book covers questionnaire design, conducting personal interviews, abstracting information from medical records, use of proxy respondents, and ascertaining biological and environmental measurements. It gives a comprehensive account of measurement error and the estimation of its effects, and the design, analysis, and interpretation of validity and reliability studies. Emphasis is given to the ways in which the validity of measurements can be increased. Techniques to maximize participation of subjects in epidemiological studies are discussed, and ethical issues relevant to exposure measurement are outlined.

This book fills a gap in the existing literature by highlighting this emerging field and definitely deserves a spot on the bookshelf of any epidemiologist...As exposure assessment constitutes an essential component of epidemiologic research, this book is certainly of great value to epidemiologists...Having taught epidemiologic methods and measurements for many years, I think this book would be very helpful for the training of graduate students, especially at the doctoral level." --Xiaomei Ma, *American Journal of Epidemiology*  
About the Author  
Emily White, Professor of Epidemiology and Associate Dean for Research, School of Public Health and Community Medicine, University of Washington; Member, Fred Hutchinson Cancer Research Center, Seattle. Bruce K Armstrong, Professor of Public Health, The University of Sydney; Director of Research, Sydney Cancer Centre, Sydney, Australia. Rodolfo Saracci, Director of Research in Epidemiology, National Research Council, Pisa, Italy.