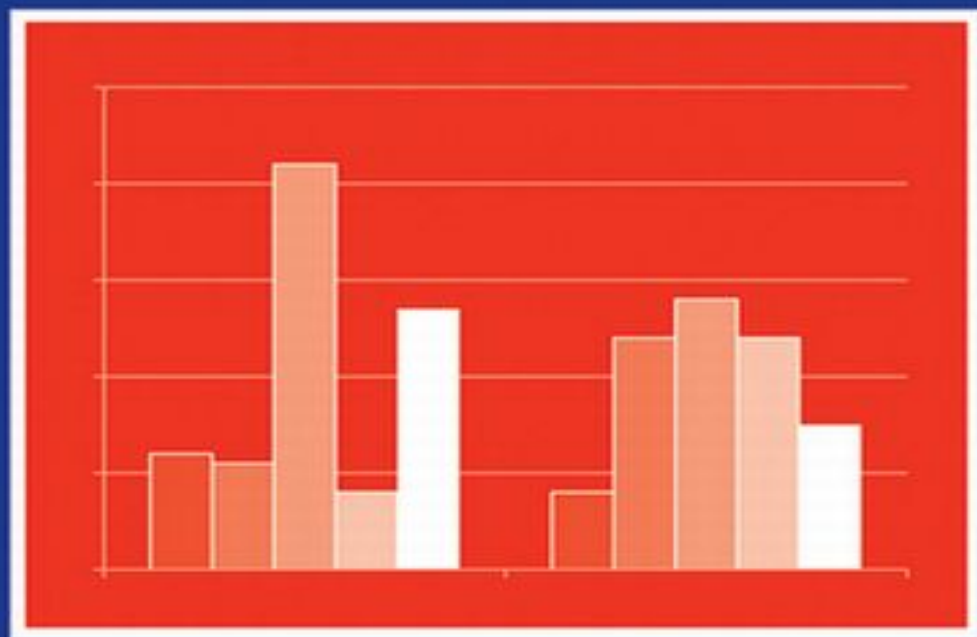


WILEY SERIES IN PROBABILITY AND STATISTICS

Latent Class and Latent Transition Analysis

With Applications in the Social, Behavioral,
and Health Sciences



Linda M. Collins
Stephanie T. Lanza

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LATENT CLASS AND LATENT TRANSITION ANALYSIS

**With Applications in the Social,
Behavioral, and Health Sciences**

Linda M. Collins

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The Pennsylvania State University



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For David and Kathy with admiration (LMC)
For Dad my first math teacher (STL)

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Acronyms

AIC	Akaike information criterion
BIC	Bayesian information criterion
DA	data augmentation
EM	expectation-maximization
GPA	grade-point average
LCA	latent class analysis
LTA	latent transition analysis
MAR	missing at random
MCAR	missing completely at random
MNAR	missing not at random
ML	maximum likelihood
NLSY	National Longitudinal Survey of Youth
RMLCA	repeated-measures latent class analysis
STI	sexually transmitted infection

PART I

FUNDAMENTALS