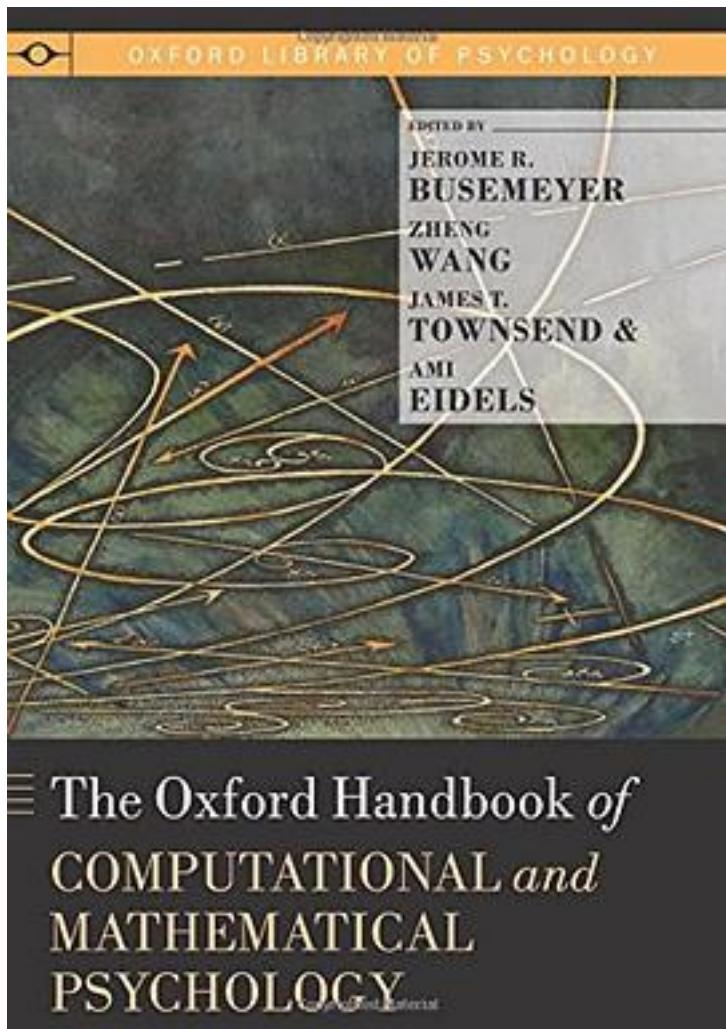


# The Oxford Handbook of Computational and Mathematical Psychology



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This Oxford Handbook offers a comprehensive and authoritative review of important developments in computational and mathematical psychology. With chapters written by leading scientists across a variety of subdisciplines, it examines the field's influence on related research areas such as cognitive psychology, developmental psychology, clinical psychology, and neuroscience. The Handbook emphasizes examples and applications of the latest research, and will appeal to readers possessing various levels of modeling experience.

The Oxford Handbook of Computational and mathematical Psychology covers the key developments in elementary cognitive mechanisms (signal detection, information processing, reinforcement learning), basic cognitive skills (perceptual judgment, categorization, episodic memory), higher-level cognition (Bayesian cognition, decision making, semantic memory, shape perception), modeling tools (Bayesian estimation and other new model comparison methods), and emerging new directions in computation and mathematical psychology (neurocognitive modeling, applications to clinical psychology, quantum cognition).

The Handbook would make an ideal graduate-level textbook for courses in computational and mathematical psychology. Readers ranging from advanced undergraduates to experienced faculty members and researchers in virtually any area of psychology--including cognitive science and related social and behavioral sciences such as consumer behavior and communication--will find the text useful.

作者介绍:

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评论

只读了exemplar model那一章。

Handbooks可分为两种，一种是按照难易度逐步覆盖某领域几乎所有重要议题，这适合大部分人的阅读习惯，而另一种不讲究什么从简到繁，各章节之间没有太大关联，想读哪里读哪里。虽然都是邀请各方向具代表性的学者来撰写正文，但以上两种模式大致有不同目的。此书属于第二种模式，就内容上来说应该是无功无过，无过是因为专家毕竟是在介绍自己的工作，专业且高效，无功是因为不适合新手读又没有真正独特的东西，比如关于贝叶斯Hierarchical models还是应该去读贝叶斯三神书的相关篇章，关于非参数贝叶斯模型有《Fundamentals of nonparametric Bayesian inference》，关于认知量子模型同一作者有另一整本书等，问题在于单一章节无法把问题说透说好，真正理解必须再读其它书。

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