

Readings From
FUTURES

edited by **RALPH JONES**



Westbury House

CONTENTS

Preface. <i>Ralph Jones</i>	ix
OVERVIEWS	
Scenarios of world development <i>Sam Cole, Jay Gershuny and Ian Miles</i>	3
The two visions of post-industrial society <i>Michael Marien</i>	21
ASPECTS	
The luxury of despair: a reply to Robert Heilbroner's <i>Human Prospect</i> <i>Christopher Freeman</i>	41
Post-industrial society: the myth of the service economy <i>J. I. Gershuny</i>	54
The new matrix of political action <i>Alan Marsh</i>	66
Professional mismanagement: the skill wastage in employment <i>Denis Pym</i>	79
Politicians and the future <i>J. Enoch Powell</i>	88
The future of morality <i>Geoffrey Vickers</i>	92
METHODS	
Risk assessment <i>Harry J. Otway and Philip D. Palmer</i>	107
The economic evaluation of long-run uncertainties <i>Robert H. Haveman</i>	116
Prediction and social change: the need for a basis in theory <i>Gordon Rattray Taylor</i>	126
Stabilisation in systems: chreods and epigenetic landscapes <i>C. H. Waddington</i>	137
Q-analysis: a hard language for the soft sciences <i>R. H. Atkin</i>	145

MODELS

- Business structure, economic cycles, and national policy
Jay W. Forrester 155
- Population, wealth, and resources up to the year 2000
Barry B. Hughes and Mihajlo D. Mesarovic 175
- SARUM 76—a global modelling project
P. C. Roberts 191
- Scenario analysis in INTERFUTURES
David Norse 205

RETROSPECTIVE

- The historian and the future
Asa Briggs 219
- Probable possible prolegomena to ideareal history
James Blish 226
- The war that never was
Correlli Barnett 232
- The accuracy of technological forecasts, 1890-1940
George Wise 238
- Economic forecasting in Britain, 1961-1975: a critique of assumptions
G. R. Chapman 247
- The British Economy in 1975* revisited
C. J. F. Brown and T. D. Sheriff 254

PROSPECTIVE

- UK productivity and employment in 1991
G. F. Ray 263
- Technical innovation and industrial development
Keith Pavitt
1. The new causality 281
 2. The dangers of divergences 294
- The world food supply: physical limitations
N. W. Pirie 304
- Forecasting technology: luck and judgement in the chemical industry
H. B. Wiener 324
- The long-life car
Ernst Fuhrmann 324

Chemicals and energy: the next 25 years <i>Peter G. Caudle</i>	332
Worldwide nuclear-plant performance: lessons for technology policy <i>John Surrey and Steve Thomas</i>	351
Global energy strategies: the implications of CO ₂ <i>Jill Williams</i>	366
Carbon: the real limit to growth <i>P. Kelly</i>	376