

TABLE OF CONTENTS

AUTHOR'S PREFACE	vii
TRANSLATOR'S PREFACE	xi
CHAPTER I / A GENERAL DESCRIPTION OF MODELS WITH NON-COINCIDENT INTERESTS	1
1. Typical Examples of Games with Non-opposed Interests	1
2. General Description of Noncooperative Games Taking into Account Mutual Information of Co-players About Their Interests	11
3. Situations, Strategies, and Players' Knowledge About Each Other's Moves	19
4. On the Problem of Rational Choice of Strategy	25
5. Exchange of Information and Extension of the Strategy Concept	31
6. Formal Description of Compromises and Coalitions	36
CHAPTER II / SOME PRINCIPLES INVOLVED IN CHOOSING RATIONAL STRATEGIES	46
7. Optimization and Averaging	46
8. The Maximin	50
9. Absolutely Optimal Strategies and Penalizing Strategies	58
10. The Best-Guaranteed Payoff Under Exchange of Information and Fixed Order of Moves	68
11. Equilibria	78
12. Advantages and Disadvantages of Coalitions	92
13. Stability of Coalitional Decisions in Repetitive Games	114
CHAPTER III / THE GUARANTEED PAYOFF PRINCIPLE IN TWO-PERSON GAMES	135
14. Qualitative Games	135
15. Games with Excluded Situations	148
16. Games with Fixed Order of Moves Without Excluded Situations	160

17. Exact Information About the Co-player's Choice: Inexact Information About His Interests	178
18. Player 1 Ignorant of Player 2's Move	191
19. The Problem of the Maximal Guaranteed Payoff and Approximation of Games	213
20. Other Cases Involving State of Knowledge Metagames	222
21. Games with Auxiliary Performance Functions	232
22. Dynamics of Two-person Games	241
23. Remarks	256
 CHAPTER IV / SOME GAME MODELS FOR MULTIPLE PLAYERS	 268
24. On the Theory of Three-person Games	268
25. Equilibria and Stable Collective Decisions in Repeated Games	286
26. Side Payments as Means of Control in Hierarchical Systems	305
 BIBLIOGRAPHY	 320
 SUBJECT INDEX	 328