

	<u>PAGE</u>
<u>C H A P T E R - III</u> :: JAYNES' MODEL AND IRREVERSIBILITY	
3.1. INTRODUCTION	... 61
3.2. PROBABILITY DISTRIBUTION	... 62
3.3. APPLICATION TO STATISTICAL MECHANICS	... 65
3.4. PHYSICAL INTERPRETATION	... 66
3.5. INTRODUCTION OF A NEW PARAMETER WITH BASIC POSTULATES	... 67
3.6. DERIVATION OF A RESULT SIMILAR TO THAT OF ONSAGER	... 68
3.7. CONCLUDING REMARKS	... 70
<u>C H A P T E R - IV</u> :: FLUCTUATION - REVERSIBILITY AND IRREVERSIBILITY	
4.1. INTRODUCTION	... 71
4.2. FLUCTUATION OF A SINGLE ENTITY	... 73
4.3. FLUCTUATIONS OF THE ENERGY AND MASS IN AN OPEN SYSTEM	... 76
4.4. FOR THREE BASIC ENTITIES	... 81
4.5. FURTHER GENERALISATIONS	... 85
4.5.1. When all the Entities are Mutually Correlated	... 87
4.5.2. Observations	... 92
4.6. CONCLUDING REMARKS	... 93
<u>C H A P T E R - V</u> :: NON-LINEAR THEORY AND SYMMETRIES OF HIGHER ORDER IN IRREVERSIBLE PROCESS	
5.1. INTRODUCTION	... 94

	<u>PAGE</u>
5.2. DEVELOPMENT OF THE SYMMETRY RELATIONS OF HIGHER ORDER : UPTO THIRD ORDER	... 95
5.3. THE SYMMETRY RELATIONS UPTO th _n ORDER AND A GENERAL RULE IN THIS CONNECTION	... 102
CONCLUDING REMARKS	... 109
<u>CHAPTER - VI</u> :: CONCLUDING REMARKS	... 110
6.1. PRELIMINARY REMARKS	... 110
6.2. CRITICAL COMMENTS	... 110
6.3. LIMITATIONS	... 111
6.4. EXTENSIONS AND RELATED PROBLEMS	... 112
<u>BIBLIOGRAPHY</u>	... 113