

CONTENTS

Preface.....	5
Introduction.....	9
Thalamocortical Reverberation System	15
Factor Analysis of EEG in Healthy and Diseased Subjects	23
Proband, Patients, Methods and Results in Factor Analysis	23
Discussion of Factor Analysis Results	26
<i>Suggestions for further research</i>	27
Thalamocortical Reverberation in the Sense of Iteration	27
Method and Clinical Data for "Alpha Fusus" Study.....	33
Results of "Alpha Fusus" Study	34
Discussion and Summary to "Alpha Fusus" Study.....	42
Stimulation, Cognition and EEG Curve	45
<i>Suggestions for further research</i>	54
States of Fatigue in Terms of EEG Analysis.....	55
Method and Proband in Fatigue Syndrome	55
Results of Fatigue Syndrome	56
Discussion and Summary to Fatigue Syndrome	57
<i>Suggestions for further research</i>	57
Thalamocortical Reverberation (Iteration) Is Regulated by Bulbar Humoroergic Nuclei (Formators)	59
Cybernetic Models of the Brain and Some Neuroinformatic Remarks	61
Interactions between Electric Brain Activity and Psychic Functions EEG Biofeedback	94
Vigilance Level, Hypnagogium and Sleep Estimated by EEG Analysis	96
Noogenesis	97
Conclusion	99
Abbreviations	108
References.....	110