# **Science of Natural Phenomena**

## **Contents**

Chapte	er 1 Radiological Science	1
(1)	What is radiation? 1	
(2)	Atoms and radioactivity, 4	
(3)	The type of radiation, 8	
(4)	What is the exposure?, 11	
(5)	The biological effects of radiation, 14	
(6)	The effective use of radiation, 17	
Chapte	er 2 Color science	20
(1)	What is the color, 20	
(2)	The color and the human, 22	
(3)	The principle of that color is visible 24	

- (4) Three primary colors of the light, 28
- (5) The color of the sky, 31
- (6) Clouds color, 34
- (7) Water color, 35

#### Chapter 3 Metabolism and science of diet

37

- (1) What is calorie?, 37
- (2) Energy required for human, 37
- (3) Human work rate, 39,
- (4) Energy how to make, 42
- (5) The role of fat , 45
- (6) Biochemically thought was effective diet, 48,

#### **Chapter 4** The science of sport

- (1) What is the muscle?, 51
- (2) Echanism of energy supply to muscle, 51
- (3) The type of muscle fiber and contractile properties , 56
- (4) The method and effect of training in sport, 61
- (5) The principle of training, 68

51

Chapter 5 Science of the taste		71
(1)	What id the taste?, 71	
(2)	Basic 5 elements of taste, 71	
(3)	Whether is the umami seasoning dangerous? 76	
(4)	Sodium glutamate(MSG), 78	
Chapt	ter 6 Science of cuisine	82
(1)	Scientific thinking if the heating of cuisine?, 82	
(2)		
(3)	The taste of fish sashimi, 92	
(4)	Why do you feel that the food is "delicious"?, 95	
Chapte	er 7 Science of poison	100
(1)	What is the poison?, 100	
(2)	Poison and medicine as a drug, 100	
(3)	Organism and medicine poison, 104	
(4)	Why does the poison become a poison?, 106	
(5)	A variety of poison, 109	
Chapte	er 8 Science – drug abuse	115
(1)	The relationship between the reward system and the drag,	115

- (2) The blood-brain barrier(Blood-Brain Barrier), 117
- (3) Reason why we depend on the drug, 119
- (4) Whether is the tobacco a "drug" or not?, 124
- (5) A variety of drug, 126

### Appendix

Polymer What is it?