

## CONTENTS

### VOLUME 4 ENVIRONMENT: EARTH ENVIRONMENT & GELS 1

Chapter 1 Environmental Preservation 3	
1 Introduction	4
2 What Is a Polymeric Floccing Agent?	6
3 Type and Structure of Polymeric Floccing Agents	7
4 Functional Mechanisms (Floccing Mechanisms)	11
5 Actual Application Examples	16
6 Conclusions	20
References	20
Chapter 2 Forestation Technology 21	
1 Introduction	22
2 Desert and Climate	22
3 Irrigation for Growing Plants	23
4 Superabsorbent Polymers (SAP) as Soil Modifiers	24
5 Recirculation of Water Through Plants	26
6 Stimuli-Responsive Polymer Gels	27
7 Thermoresponsive Polymer Hydrogels	30
8 Proposal for New Water Recycling Systems	34
9 Conclusions	35
References	36
Chapter 3 Sanitary Products and Environmental Problems 21	
1 Introduction	38
2 Terminology	38
3 Materials Used for Sanitary Products	38
4 Production of Sanitary Products and Its Consequence as Rubbish	40
5 Uniqueness of Sanitary Product Waste from the Legal Point of View	41
6 Influence on Daily Environment	43
7 Preservation of Natural Resources	63
8 Ecology and Preservation of Scenery	74
9 Conclusions	74
(1) Weight Reduction of Disposable Diapers	74
(2) Used Disposable Diapers for Use as Compost	74
Data Summary Gel compound data index	75