

# TABLE OF CONTENTS

	<u>Page</u>
FOREWORD	iii
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
INTRODUCTION	1
Section 1.	
DEVELOPING A PROFESSIONAL CAREER	2
ETHICAL BEHAVIOR	2
TECHNICAL COMPETENCE	3
PROFESSIONAL ENGINEERING REGISTRATION	3
Section 2.	
WHY REGISTRATION?	5
Section 3.	
PROFESSIONAL ENGINEERING REGISTRATION	7
NATIONAL CONCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING	7
STATE BOARDS OF REGISTRATION	8
ANS COMMITTEE ACTIVITIES	8
REQUIREMENTS FOR REGISTRATION	9
THE EXAMINATION SYSTEM	11
Section 4.	
STEPS TO REGISTRATION	12
EDUCATION	12
FUNDAMENTALS OF ENGINEERING EXAMINATION (FE)	13
EXPERIENCE	13
APPLICATION FORMS	13
ACCREDITATION	14
PROFESSIONAL ENGINEERING EXAMINATION (PE)	15
Section 5.	
THE REGISTERED PROFESSIONAL ENGINEER	16
ENGINEER'S SEAL	16
MULTIPLE REGISTRATION	16
PROFESSIONAL ENGINEERS	17
Section 6.	
FUNDAMENTALS OF ENGINEERING EXAMINATION	18
FORMAT OF THE FUNDAMENTALS OF ENGINEERING EXAMINATION (FE)	18
GRADING OF THE FE EXAM	19
STUDYING FOR THE EXAM	20
TYPICAL SUBDIVISION OF MAJOR SUBJECT AREAS ON FE EXAM	20

## TABLE OF CONTENTS (continued)

		<u>Page</u>
Section 7.	PROFESSIONAL ENGINEERING EXAMINATION	25
	THE EXAMINATION	25
	MAJOR WORK BEHAVIORS	28
	ITEMS TO TAKE TO THE EXAMINATION	34
Section 8.	SUGGESTED REFERENCES	36
Section 9.	NOTES ON MAJOR WORK BEHAVIORS	40
Section I.	NUCLEAR POWER SYSTEMS	I-1
Section II.	NUCLEAR FUEL CYCLE	II-1
Section III.	INTERACTION OF RADIATION WITH MATTER	III-1
Section IV	NUCLEAR CRITICALITY/KINETICS/NEUTRONICS	IV-1
APPENDIX A	40 Question Sample Exam	A-1
APPENDIX B	40 Questions from 1998 Exam	B-1
APPENDIX C	80 Question Sample Exam	C-1