INTRODUCTION

This seventh edition of Contracts and the Legal Environment for Engineers and Architects attempts to provide a number of improvements, based upon the comments of faculty and other users of the text. Instructors who have previously used the sixth edition will observe that the order in which material is presented in the text has been changed. To assist such instructors, a new preparatory section has been added which includes a mapping of new chapters and sections to old. This should assist in revamping reading assignments in your course syllabus.

Another issue raised by many instructors and users of the text has been the growth of footnotes within the text. While this format is common to students of law and legal texts, it is less common to students of engineering. An effort has thus been made to incorporate a number of the more important footnotes into the textual material, redacting the remainder. However, for the instructor who desires to have access to, or direct students to, these additional footnotes, such are provided in another new section to this Instructor's Manual.

This Instructor's Manual for the seventh edition is designed primarily to assist instructors without extensive legal training in the use of Contracts and the Legal Environment for Engineers and Architects. It consists of suggested solutions to the questions for discussion found at the end of each chapter. Some instructors may prefer to review the questions for discussion with their classes at the end of each chapter, but the author has had good results and livelier classes by assigning the students to read a particular chapter and then spending the class time asking the questions for discussion and soliciting student responses to them.

Whatever the format, a few words of caution are in order. Questions of law often have no definitive answers; some arguments are simply better than others. Thus, the solutions included herein do not purport to be "answers" in the normal sense of the word. They are at most suggestions of plausible solutions and the instructor should do nothing to discourage students from suggesting alternate or even contrary approaches. If these solutions provoke a rational discussion of the problem at hand they will have served their purpose.

As well, one must be conscious of the fact that reality is not broken down into distinct chapters. Thus, the resolution of a case dealing with a point of construction contract law may turn on a question of evidence, credibility of a witness, or even a totally extra-legal consideration. An early recognition that our legal system is a tapestry of many threads and one highly dependent on human and subjective factors will make the seeming unpredictability of result in a particular case somewhat more palatable.

Because of these factors it was with considerable trepidation that the author attempted a solutions manual at all. If solutions to particular questions for discussion prove inadequate or misleading in actual use the author would much appreciate advice such that future printings can be improved.

Mapping of Sixth to Seventh Editions

To assist faculty that have previous used the Sixth edition, a mapping of the Sixth to Seventh editions is provided below. This may assist in revamping reading assignments in course syllabi. Note that new material, added to this seventh edition, may not correspond to a specific chapter and section of the sixth edition. Also note that material in various sections has not merely been moved, but has been updated where appropriate. Where a section from the sixth edition has been clearly split, such is indicated; however, in several instances the detail of reorganization goes beyond a simple mapping.

The chapter numbering for the Sixth Edition are provided in the left column; and for the Seventh Edition in the right column.

Reorganization by Part					
Sixth Edition	Seventh Edition				
Part I Law of Contracts and	Part IIntroduction to LawPart IILaw of Contracts				
Part II Application to Construction Contracts	Part VI Application to Construction Contracts				
Part III Some Legal Matters of Concern to Design Professionals and	Part III Relationships of Individuals and Society Part IV Torts				
and and	Part V Real and Other Property Part VII Engineering and Legal Procedure				

Seventh Edition

Reorganization by Chapter and Section

Sixth Edition

Preface		Preface	
Code of Ethics		1.10	NSPE Code of Ethics
CH 1	Introduction 3	CH 1	Evolution of Engineering and Law
an	d	1.1	Introduction to Engineering and Law
NEW		1.2	Military and Civil Engineering
NEW		1.3	Criminal and Civil Law
NEW		1.4	Society and the Law
NEW		1.5	The Code of Hammurabi
1.1	Law and Engineering 3	1.6	Law as a Process
1.2	The Law in General 5	1.7	The Law in General
1.3	Basic Divisions of Law 6	1.7	The Law in General
1.4	Statute Law 6	2.1.2	Statute Law
1.5	Common Law 7	2.1.1	Common Law
NEW		2.1.3	Federal v State Law
NEW		2.1.4	Uniform Laws and Codes
NEW		2.1.5	Merger of Consensus, Statutes and Codes
1.6	Equity 9	2.1.6	Equity
NEW		CH 2.2	The European Civil Law System
NEW		2.2.1	The Napoleonic Code
NEW		2.2.2	Modern French Law
NEW		2.2.3	Export to Spain and Colonies
NEW		2.2.4	Global Diversity of Civil Law
NEW		2.2.5	Common and Civil Law and NAFTA
NEW		2.2.6	Civil Law in the United States
NEW		CH 2.3	The Chinese (Justice) Law System
NEW		2.3.1	Historical
NEW		2.3.2	Post 1945
NEW		2.3.3	Current Trends
NEW		CH 2.4	The Shari'a Law and Other Legal Systems
NEW		2.4.1	Historical

NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	Our System of Courts 10 Contacts with Lawyers 11 Licensing 12 Definitions 13 A General Picture of Engineering 13 Responsibility of the Engineer 14 Phases of the Development of Construction Projects 14	2.4.2 2.4.3 2.4.4 CH 3 3.1 3.2 3.3 3.4 3.5 CH 4 4.1 4.2 4.3 4.4 4.5 4.6 1.8 1.9 1.11 1.12 1.13 1.14
CH 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 NEW NEW	Types of Contracts 17 Express Contracts and Contracts Implied in Fact 18 Unilateral and Bilateral Contracts 18 Joint and Several Contracts 19 Entire and Severable Contracts 20 Void and Voidable Contracts 21 Executory and Executed Contracts 22 Subcontracts 22 Quasi Contracts 22	CH 5 5.1 5.3 5.4 5.5 5.6 5.7 5.9 5.2 5.8 5.10
CH 3 3.1 3.2 3.3 SUBH 3.4 3.5 3.6 3.7 SUBH 3.8 3.9 3.10 SUBH 3.11 3.12 3.13 3.14 3.15 SUBH 3.16 3.17 3.18 3.19 3.20 3.21 SUBH 3.22 3.23 3.24 3.25	Formation Principles 25 The Essentials of Contract 25 Meeting of the Minds 25 Definiteness 25 Competent Parties 26 The Contracting Parties 26 Contracts of Infants 26 Contracts of Mental Incompetents 27 Contracts of Intoxicated Persons 28 Proper Subject Matter 28 Illegal Bargains 28 Duress and Undue Influence 30 The Statute of Frauds 30 Offer 30 The Nature of Offer 30 Communicating the Offer 31 Imperfectly Transmitted Offers 32 Duration of Offers 32 Revocation of Offers 32 Acceptance 33 The Nature of Acceptance 33 Who May Accept Offers 33 Form and Notice of the Acceptance 33 Silence as Acceptance 34 Conditional Acceptance, or Counteroffer 34 Point at Which Contract Is Made 35 Problems in the Formation Process 35 Mutual Mistake 35 Unilateral Mistake 36 Mistakes of Law 36 Clerical Errors 36	$\begin{array}{c} {\rm CH}\ 6\\ 6.1\\ 6.6\\ 6.9\\ 6.2\\ 6.2\\ 6.2\\ 6.2\\ 6.2\\ 6.2\\ 6.2\\ 6.2$

2.4.3	Shi'a
2.4.4	Understanding of Law and the Global Economy
CH 3	Substantive v Procedural Law
3.1	The Ten Commandments
3.2	Evidence
3.3	Civil Procedure
3.4	Criminal Procedure
3.5	Choice of Laws
CH 4	Systems of Courts
4.1	U.S. Federal Courts
4.2	U.S. Court of Federal Claims
4.3	Armed Services Board of Contract Appeals
4.4	U.S. State Courts
4.5	U.S. Arbitration
4.6	Transnational Adjudication
1.8	Contacts with Lawyers
1.9	Licensing
1.11	Definitions
1.12	A General Picture of Engineering
1.13	Responsibility of the Engineer
1.14	Phases of Development
CH 5	Types of Contracts
5.1	Expressed and Implied
5.3	Unilateral and Bilateral
5.4	Joint and Several
5.5	Entire and Severable
5.6	Void and Voidable
5.7	Executory and Executed
5.9	Privity and Subcontracts
5.2	Quasi Contracts
5.8	Negotiated and Adhesion
5.10	Transactional Analysis
	Transactional Analysis
CH 6	Transactional Analysis Formation of Contacts
CH 6 6.1	Transactional Analysis Formation of Contacts Definition of the word "Contract"
CH 6 6.1 6.6	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds
CH 6 6.1 6.6 6.9	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms
CH 6 6.1 6.6 6.9 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties
CH 6 6.1 6.6 6.9 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.5 6.5 6.5	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.5 6.5 6.5 6.5	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance Acceptance
CH 6 6.1 6.6 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance Acceptance Acceptance
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.5 6.5 6.5 6.5	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Procedural Issues in Formation of Contracts
CH 6 6.1 6.6 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.2 7.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 CH 7	Transactional Analysis Formation of Contacts Definition of the word "Contract" Meeting of the Minds Minimum Terms Competent Parties Competent Parties Competent Parties Competent Parties Competent Parties Proper Subject Matter Proper Subject Matter Competent Parties Statute of Frauds Offer Offer Offer Offer Offer Offer Offer Offer Offer Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance Acceptance

Sunni

5.6Meeting of the Minds5.6Meeting of the Minds

2.24		7.0
3.26	Fraud and Material Misrepresentation 37	7.3
3.27	Remedying Fraud 37	7.3
3.28	Waiver of Fraud 37	7.3
SUBH	Consideration 38	6.7
3.29	Meaning and Importance 38	6.7
3.30	Forbearance as Consideration 39	6.7
3.31	Adequacy of Consideration 39	6.7
3.32	Performance of Existing Duty 40	6.7
3.33	The Doctrine of Foakes v. Beer 40	6.7
3.34	Past Consideration 42	6.7
3.35	Moral Consideration 42	6.7
3.36	Mutuality of Obligation 43	6.8
3.37		6.7
	Illegal Consideration 43	
3.38	Failure of Consideration 44	6.7
3.39	Estoppel 44	7.2
CH 4	Conditions and Third-Party Beneficiaries 49	CH 8
an		CH 9
4.1	Definition and Classification 49	8.1
NEW		8.2
NEW		8.3
NEW		8.4
4.2	Condition Precedent 50	8.5
4.3	Condition Concurrent 51	8.6
4.4	Condition Subsequent 51	8.5
4.5	Personal-Taste Contracts 51	8.7
4.6	Conditions about Time of Performance 52	8.8
4.7	Conditions about Place of Performance 52	8.9
4.8	Conditions about Amount of the Compensation 52	8.10
4.9	Failure of Condition 53	8.11
4.10	Waiver of Condition 53	
		11.14
4.11	Estoppel 53	7.2
4.12	The Requirement of Privity 54	9.1
SUBH	Third-Party Beneficiaries and Assignment 54	9.1
4.13	Right to Sue 54	9.1
NEW		9.2
		9.3
NEW		
NEW		9.4
NEW		9.5
4.14	Rescission of Third-Party-Beneficiary Contracts 56	9.6
4.15	The Nature of Assignment 57	7.1
4.16	What May Be Assigned 57	7.1
4.17	The Delegating of Duties 58	7.1
4.18	The Effect of an Assignment 58	7.1
CH 5	Construction and Interpretation 61	CH 1
5.1	General Rules of Construction 61	10.1
5.2		10.1
	Parties' Intent Important 61	
5.3	Contract to Be Considered as a Whole 62	10.3
5.4	Construing Vague Terminology against the Drafter 62	10.4
5.5	Parties' Own Interpretation 63	10.5
5.6	Implied Terms 64	10.6
5.7	General versus Specific Terms in the Contract 64	10.7
5.8	Writing versus Printing 65	10.7
5.9	Words versus Figures 65	10.7
5.10	Clerical Errors 65	10.8
NEW		10.9
CH 6	Performance or Breach of Contract Obligations 67	CH 1
	Performance or Breach of Contract Obligations 67	
SUBH	Performance 67	11.1
6.1	Performance as Condition Precedent to Recovery 67	11.1
6.2	Substantial Performance 68	12.1
an		12.2
6.3	Partial Performance 69	12.3
6.4	The Time Element 70	12.3
6.5	Approval of Performance 70	12.5

7.3	Fraud and Material Misrepresentation
7.3	Fraud and Material Misrepresentation
7.3	Fraud and Material Misrepresentation
6.7	Consideration
6.7	Consideration
6.7 6.7	
	Consideration
6.7	Consideration
6.8	Mutuality of Obligation
6.7	Consideration
6.7 6.7	Consideration
7.2	Promissory Estoppel
CII O	
CH 8	Terms and Conditions
CH 9	Privity and Third Party Beneficiaries
8.1	Definitions and Classification
8.2	Potestative, Casual and Mixed
8.3	Single, Copulative and Disjunctive
8.4	Expressed, Implied in Fact and Implied in Law
8.5	Precedent and Subsequent
8.6	Condition Concurrent
8.5	Precedent and Subsequent
8.7	Personal Taste
8.8	Time of Performance
8.9	Place of Performance
8.10	Amount of Compensation
8.11	Failure of Condition
11.14	Waiver
7.2	Promissory Estoppel
9.1	Requirement for Privity
9.1	Requirement for Privity
9.1	Requirement for Privity
9.2	The Creditor Beneficiary
9.3	The Donee Beneficiary
9.3 9.4	-
	The Incidental Beneficiary
9.5	The Intended Beneficiary
9.6	Rescission of Third Party Beneficiary Contracts
7.1	Assignment
CH 10	Construction and Interpretation
10.1	General Rules of Construction
10.2	Intent v Parol Evidence Rule
10.2	Contract to Be Considered as a Whole
10.3	
	Construing Ambiguous Terminology
10.5	Parties' Own Interpretation
10.6	Implied Terms
10.7	Priority of Documents
10.7	Priority of Documents
10.7	Priority of Documents
10.8	Clerical Errors
10.9	Conflict of Laws - Substantive v Procedural
011.1.1	
CH 11	Discharge of Obligations
11.1	Performance
11.1	Performance
12.1	Substantial Performance of an Entire Contract
12.2	
	Substantial Performance - Severable Obligation
12.3	Substantial Performance – Severable Obligation Partial Performance and Divisibility

6.6	Satisfying Third Persons; Architect's Certificate 71	12.5
6.7	Arbitration and/or Mediation Clauses 72	39.7
6.8	Waiver of Imperfections in Performance 72	11.14
SUBH	Excuses for Delay or Nonperformance 73	11.4
6.9		
	Impossibility 73	11.4
6.10	Death or Illness of Party 75	11.4
6.11	Destruction of Subject Matter 75	11.5
6.12	Hardship or Inconvenience 76	11.4
6.13	Strike and Labor Trouble 76	11.4
6.14	Supervening Illegality 77	11.3
6.15	Frustration of Object 77	11.6
6.16	Waiver by Other Party 77	11.14
6.17	Material Alteration or Fraud by Other Party 78	11.3
6.18	Repudiation or Breach by Other Party 78	11.3
6.19	Prevention by Other Party 78	11.2
6.20	Failure of Condition 79	11.3
NEW		11.15
NEW		11.16
NEW		11.17
NEW		11.18
SUBH	The Nature of Breach 79	13.1
6.21	Definition and Forms of Breach 79	13.1
6.22	Total Breach; Partial Breach 79	11.3
6.23	Anticipatory Breach 80	11.3
6.24	Voluntary Disability as Breach 80	11.3
	Prevention as Breach 81	
6.25		11.2
SUBH	Waiver of Breach 81	11.14
6.26	Definition; Alternatives for Innocent Party 81	11.14
6.27	Elements of Waiver 81	11.14
6.28	Mutual Desire to Ignore Repudiation 82	11.14
SUBH	Remedies for Breach 83	CH 13
6.29	General Considerations 83	13.1
6.30	Damages 83	13.4
and		13.5
and		13.6
6.31	Restitution 86	13.7
6.32	Specific Performance 86	13.3
CH 7	Termination of Contracts 91	CH 11
SUBH	In General 91	CH 11
7.1	Means of Discharge 91	11.0
SUBH	Termination through Performance or Effective Tender 91	
7.2	Type of Performance Required 91	11.2
SUBH	Termination through Breach 92	11.3
7.3	Refinements of Terminology 92	11.3
7.4	Material Breach 92	11.3
7.5	Cancellation Clause in Contract 93	13.2
SUBH		11.3
	Termination through Agreement 94	
7.6	Mutual Renunciation (Rescission) of the Contract 94	11.7
7.7	Substitution of New Contract 95	11.8
NEW		11.9
7.8	Release; Convenant Not to Sue 95	11.10
7.9	Accord and Satisfaction 96	11.13
7.10	Novation 97	11.11
NEW		11.12
7.11	Exercise of Power Reserved 98	11.3
SUBH	Termination through Frustration 98	11.6
7.12	Theory of Frustration 98	11.6
CH 8	Contracts for Construction and Engineering Services 103	CH 29
Part 2 Int	roduction	29.1
8.1	Application to Construction Industry 103	29.2
8.2	Definitions 103	29.6
8.3	Contracts for Engineering and Architectural Services 104	29.3
8.4	Components of a Construction Contract 107	29.4
8.4 8.5		
0.0	Stipulated Sum Contract 108	29.5

5	Evaluation	of Performance	v	Good Faith
5	Lvaluation	of i chomanec	v	Ooou r ann

- Scope of Arbitrator's Authority
 - Waiver
- Impossibility
- Impossibility
- Impossibility
- Destruction of Subject Matter
- Impossibility
- Impossibility
- Condition Subsequent
- Commercial Frustration
- Waiver
- Condition Subsequent Condition Subsequent
- Tender
- **Condition Subsequent** Account Stated
- Lapse
- Statutes of Limitation v Doctrine of Laches
- Judgment
- General Considerations
- General Considerations
- **Condition Subsequent**
- **Condition Subsequent**
- **Condition Subsequent**
- Tender
- Waiver
- Waiver
- Waiver
- Waiver
- Remedies for Breach of Contract
- General Considerations Monetary Damages
- Liquidated or Stipulated Damages
- Duty to Mitigate Damages
- Restitution and Constructive Trusts
- Specific Performance
- Discharge of Obligations
- Discharge of Obligations
- Discharge of Obligations
 - Tender
- **Condition Subsequent**
- Condition Subsequent
- Condition Subsequent
- Rescission
- Substitution of Contract
- Reformation
- Release
- Accord and Satisfaction
- Novation
- Cancellation
- **Condition Subsequent**
- **Commercial Frustration**
- Commercial Frustration
- **Contracts for Construction Projects** Preliminary Matters Relating to Construction Documents
 - Application to Construction Industry
- Preparation of Enforceable Specifications
- Contracts for Engineering/Architectural Services
- Components of a Construction Contract
- Types of Contracts for Construction

- Tender
- **Condition Subsequent**
- Termination

8.6	Unit-Price Contract 109	29
8.7	Cost-Plus-Percentage Contract 111	29
8.8	Cost-Plus-Fixed-Fee Contract 112	29
8.9	Subdivision into Several Contracts 113	29
8.10	Contracts for Combined Engineering and Construction	11429
8.11	Preparation of Documents 114	29
8.12	Examples of Wording 116	29
NEW	Examples of Wording 110	29
CH 9	Advertising for Bids 121	С
9.1	Purpose of Advertisement 121	37
9.2	Advertising Media 122	37
9.3	Timing of Advertisement 122	37
9.4	Attracting Attention 122	37
9.5	Information to Be Given in the Text 123	37
9.6	Examples of Advertisements 125	D
CU 10	Dremosals 120	C
CH 10	Proposals 129	C
10.1	Significance of a Proposal 129	30
10.2	Purpose of Proposal Forms 130 Standard Proposal Forms 120	30
10.3	Standard Proposal Forms 130	30
10.4	Special Forms 130	30
10.5	Proposal Forms for Lump-Sum Contracts 131	30
10.6	Proposal Forms for Unit-Price Contracts 133	30
10.7	Proposal Forms for Cost-Plus Contracts 139	30
10.8	Lowest Responsible Bidder 140	30
10.9	Prequalification of Bidders 141	30
10.10	Deposit for Securing Plans 141	30
10.11	Miscellaneous Items for Information of Bidders 142	30
10.12	Preparation of Bid on Cost-Plus Contract 143	30
10.13	Preparation of Lump-Sum Bid by a Contractor 143	30
10.14	Preparation of a Unit-Price Bid by a Contractor 146	30
10.15	Improper Proposals 148 Alternatives 149	30
10.16		30
10.17	Withdrawal of Proposals 151	30
10.18 10.19	Opening of Proposals 152 Rejection of Proposals 152	30 30
10.19	Readvertisement 152	30
10.20		30
10.21	Awarding the Contract 153	50
CH 11	Contract Clauses—General Conditions 157	С
11.1	Introduction 157	34
11.2	Purpose of Written Contract Papers 158	34
11.3	Standard Contracts 158	34
11.4	Standard Contract Clauses 158	34
11.5	Contractor's Warranties 159	34
11.6	Approval of Contractor's Plans and Equipment 160	34
11.7	Defective Drawings 161	34
11.8	Approval of Contractor's Drawings 161	34
11.9	Guarantee by the Contractor 163	34
11.10	Conduct of Work 163	34
11.11	Defective Work 164	34
11.12	Relations with Other Contractors and Subcontractors 1	65 34
11.13	Order of Completion 167	34
11.14	Inspection of Materials 168	34
11.15	Inspection of Field Operations 169	34
11.16	Duties of an Inspector 170	34
11.17	Land and Facilities 171	34
11.18	Permits and Licenses 172	34
11.19	Labor Considerations 173	34
11.20	Notices 173	34
11.21	Work Done by the Owner 174	34
11.22	Lines and Grades 174	34
11.23	Underpinning 175	34
11.24	Order and Discipline 176	34
11.25	Performance 176	34

29.5	Types of Contracts for Construction
29.5	Types of Contracts for Construction
29.5	Types of Contracts for Construction
29.5	Types of Contracts for Construction
29.5	Types of Contracts for Construction
29.6	Preparation of Enforceable Specifications
29.6	Preparation of Enforceable Specifications
29.7	Standard Form Contracts of the Industry
CH 37	Advertising for Bids
37.1	Purpose of Advertisement
37.2	Advertising Media
37.3	Timing of Advertisement
37.4	Attracting Attention
37.5	Information to Be Given in the Text
Deleted -	- May be found on Internet
CH 36	Proposals
36.1	Significance of a Proposal
36.2	Purpose of Proposal Forms
36.3	Standard Proposal Forms
36.4	Special Forms
36.5	Proposal Forms for Lump-Sum Contracts
36.6	Proposal Forms for Unit-Price Contracts
36.7	Proposal Forms for Cost-Plus Contracts
36.8	Lowest Responsible Bidder
36.9	Prequalification of Bidders
36.10	Deposit for Securing Plans
36.11	Miscellaneous Items for Information of Bidders
36.12	Preparation of Bid on Cost-Plus Contract
36.13	Preparation of Lump-Sum Bid by a Contractor
36.14	Preparation of a Unit-Price Bid by a Contractor
36.15	Improper Proposals
36.16	Alternatives
36.17	Withdrawal of Proposals
36.18	Opening of Proposals
36.19	Rejection of Proposals
36.20	Readvertisement
36.21	Awarding the Contract
CH 34	General Condtions

- 4.1 Introduction
- Purpose of Written Contract Papers 4.2
- 4.3 Standard Contracts
- 4.4 Standard Contract Clauses
- Contractor's Warranties 4.5
- Approval of Contractor's Plans and Equipment 4.6
- 4.7 Defective Drawings
- 4.8 Approval of Contractor's Drawings
- 4.9 Guarantee by the Contractor
- 4.10 Conduct of Work
- 4.11 Defective Work
- 4.12 Relations with Other ...
- 4.13 Order of Completion
- 4.14 Inspection of Materials
- 4.15 Inspection of Field Operations
- Duties of an Inspector 4.16
- 4.17 Land and Facilities
- Permits and Licenses 4.18 Labor Considerations
- 4.19 4.20 Notices
- 4.21
- Work Done by the Owner 4.22 Lines and Grades
- 4.23 Underpinning
- Order and Discipline 4.24
- 4.25 Performance

- 11.26 Final Inspection and Acceptance 177
- 11.27 Miscellaneous 178
- CH 12 Contract Clauses Relating to Finances 183 12.1 Suspension of Contract 183 12.2 Cancellation or Termination of Contract 184 12.3 Transfer of Contract 185 12.4 Revisions 186 12.5 Extras in General 187 12.6 Extras Caused by Subsurface Conditions 188 Extras ... Additional Quantities of Work or Materials 189 12.7 Extras ... Additional Difficulty of Performance 190 12.8 Extras Caused by Reduction of Work 191 12.9 12.10 Responsibility for Extra Costs 191 12.11 Errors Discovered by the Contractor 193 NEW 12.12 Delays 193 12.13 Partial Payments 196 Withholding of a Portion of Partial Payment 198 12.14 12.15 Final Payment 198 Failure to Make Payments 199 12.16 Liquidated Damages 200 12.17 12.18 Damages for Defective or Incomplete Work 202 12.19 Special Claims for Damages against the Contractor 204 12.20 Risk, Liability, and Indemnity 204 12.21 Power of Engineer in Settling Disputes 206 CH 13 Specifications for Workmanship 211 13.1 Specifying Procedures 211 13.2 Sample Paragraphs 213 13.3 Specifying Workmanship 214 13.4 Specifying the Quality of Results 216 13.5 Itemizing 217 13.6 Standard Specifications for Workmanship 219 13.7 Use of Previous Specifications 221 13.8 "As Directed by the Engineer" 221 13.9 First-Quality Workmanship 222 13.10 Intent of Plans and Specifications 223 13.11 Planning Specifications for Workmanship 224 13.12 Sample Paragraphs 226 13.13 Typical List of Items 230 CH 14 Specifications for Materials 235 14.1 Introduction 235 Discretionary Power of the Engineer 238 14.2 14.3 Standard Products 239 14.4 Standard Specifications for Materials 241 14.5 Use of Previous Specifications 244 14.6 Specification in Terms of Service 245 14.7 Planning Detailed Specifications 246 14.8 Special Items 248 CH 15 Drawings 251 15.1 Introduction 251 NEW 15.2 Use of Design Drawings 252 Tabulation of Drawings 253 15.3 Preservation of Contract Drawings 254 15.4 15.5 Sources of Trouble 255 15.6 Development of Details 256 Revisions 261 15.7 Notes 261 15.8 NEW CH 16 Agency 269
- 16.1 Definitions and Distinctions 269

- 34.26 Final Inspection and Acceptance
- 34.27 Miscellaneous
- CH 35 Contract Clauses Relating to Finances
- 35.1 Suspension of Contract
- 35.2 Cancellation or Termination of Contract
- 35.3 Transfer of Contract
- 35.4 Revisions
- 35.5 Extras in General
- 35.6 Extras Caused by Subsurface Conditions
- 35.7 Extras Caused by Additional Quantities ...
- Extras Caused by Additional Difficulty ... 35.8
- 35.9 Extras Caused by Reduction of Work
- 35.10 Responsibility for Extra Costs
- 35.11 Errors Discovered by the Contractor
- 35.12 Exculpatory Language Relating to Claims for Extra Cost
- 35.13 Delays
- 35.14 Partial Payments
- 35.15 Withholding of a Portion of Partial Payment
- 35.16 **Final Payment**
- 35.17 Failure to Make Payments
- 35.18 Liquidated Damages
- 35.19 Damages for Defective or Incomplete Work
- 35.20 Special Claims for Damages v Contractor
- 35.21 Risk, Liability, and Indemnity
- 35.22 Power of Engineer in Settling Disputes
- CH 32 Specifications for Workmanship
- Specifying Procedures

- 32.9 First-Quality Workmanship
- 32.10 Intent of Plans and Specifications
- 32.11 Planning Specifications for Workmanship
- 32.12 Sample Paragraphs
- 32.13 Typical List of Items
- CH 33 Specifications for Materials
- 33.1 Introduction
- 33.2 Discretionary Power of the Engineer
- 33.3 Standard Products
- 33.4 Standard Specifications for Materials
- 33.5 Use of Previous Specifications
- 33.6 Specification in Terms of Service
- 33.7 Planning Detailed Specifications
- 33.8 Special Items

CH 30 Drawings

- 30.1 Introduction 30.2
- Preparing Enforceable Drawings
- Use of Design Drawings 30.3 30.4
- Tabulation of Drawings 30.5 Preservation of Contract Drawings
- 30.6
- Sources of Trouble 30.7 Development of Details
- 30.8
- Revisions 30.9 Notes
- 30.10 Sealing of Electronic CAD Drawings
- CH 14 Agency
- 14.1 Definitions and Distinctions

- 32.1
- 32.2 Sample Paragraphs
- 32.3 Specifying Workmanship
- 32.4 Specifying the Quality of Results
- 32.5 Itemizing
- 32.6 Standard Specifications for Workmanship
- 32.7 Use of Previous Specifications
- 32.8 "As Directed by the Engineer"

	and	14.2	Indep
16.2	Trustee Distinguished from Agent 270	14.3	Truste
16.3	Importance of Agency 271	14.4	Impor
16.4	Creating the Agency Relationship 271	14.5	Creati
16.5	Agency by Estoppel or Ratification 271	14.6	Agenc
16.6	General and Special Agency 272	14.7	Gener
16.7	Position of the Agent 273	14.8	Positi
16.8	Position of the Principal 274	14.9	Positi
16.9	The Undisclosed Principal 274	14.10	The U
16.10	Subagents 275	14.11	Subag
16.11	Termination of the Agency 275	14.12	Termi
CH 17	Partnerships 279	CH 15	Partne
17.1	Nature of a General Partnership 279	15.1	Nature
17.2	Articles of Partnership 280	15.2	Articl
NEW		15.3	Oral a
17.3	Each Partner as Agent of the Firm 281	15.4	Each l
17.4	Overreaching by a Partner 282	15.5	Overr
17.5	Tort Liability 282	15.6	Tort L
17.6	Contract Liability 283	15.7	Contra
17.7	Incoming and Retiring General Partners 283	15.8	Incom
17.8	Termination of the Partnership 284	15.9	Termi
17.9	Limited Partnership 285	15.10	Limite
17.10	Subpartnership 286	15.11	Subpa
NEW		15.12	Joint '
CH 18	Corporations 289	CH 16	Corpo
NEW		16.1	Conce
NEW		16.2	Histor
18.1	Types of Corporations 289	16.3	Types
18.2	Defectively Formed Corporations 290	16.7	Defec
18.3	Characteristics of the Private Stock Corporation 291	16.4	Chara
18.4	Private Corporation's Powers in General 293	16.5	Power
18.5	Ultra Vires Activity 293	16.8	Ultra
18.6	Forming the Corporation 294	16.6	Formi
18.7	Stock and Stockholders 295	16.9	Stock
18.8	The Directors 296	16.10	The D
18.9	The Officers 298	16.11	The O
18.10	Stockholder Suits 300	16.12	Stock
18.11	Misc Control Devices Available to Stockholders 300	16.12	Contro
18.12	Subsidiary and Affiliated Corporations 301	16.13	Subsid
an		16.14	Holdi
18.13	Dissolution and Winding Up; Reorganization 302	16.15	Dissol
		16.16	Bankr
CH 19	Torts 305	CH 20	Torts
19.1	Definition and Scope 305	20.1	Defini
19.2	Classes of Torts 305	20.2	Classe
19.3	Bases of Tort Liability 306	20.3	Bases
SUBH	Negligence 306	22	Neglig
19.4	Definition 306	22.1	Defini
19.5	The Elements of Negligence 307	22.2	Eleme
19.6	The Standard of Care 307	22.3	Standa
NEW		22.4	Standa
19.7	Proximate Cause and Foreseeability 308	22.9	Proxi
19.8	Violation of Statute 310	22.7	Violat
19.9	Gross Negligence 310	22.8	Gross
19.10	Imputed Negligence 311	22.10	Imput
19.11	Contributory Negligence 311	22.11	Contri
19.12	Comparative Negligence 312	22.12	Comp
19.13	Assumption of Risk 313	22.13	Assun
19.14	Last Clear Chance 314	22.14	Last C
NEW		22.5	Proof
19.15	Res Ipsa Loquitur 315	22.6	Res Ip
NEW	0 . 1	22.17	Dama
SUBH	Special Topics 317		

4.2	Independent	Contractor	Distinguished	from Agent

- ee Distinguished from Agent
- rtance of Agency
- ing the Agency Relationship
- cy by Estoppel or Ratification
- ral and Special Agency
- on of the Agent
- on of the Principal
- Indisclosed Principal
- gents
- ination of the Agency

erships

- e of a General Partnership
- es of Partnership
- and Implied Partnerships
- Partner as Agent of the Firm
- eaching by a Partner
- liability
- act Liability
- ning and Retiring General Partners
- ination of the Partnership
- ed Partnership
- artnership
- Ventures

orations

- ept of a Fictitious Entity
- ry of Corporations
- of Corporations
- tively Formed Corporations
- cteristics of the Private Stock Corporation
- rs of a Private Corporation
- Vires Activity
- ing the Corporation
- and Stockholders
- Directors
- Officers
- holder Suits
- ol Devices of Stockholders
- diary and Affiliated Corporations ...
- ng Companies, Consolidations, Mergers
- lution and Winding Up; Reorganization
- ruptcy and Reorganization
- ition and Scope
- es of Torts
- of Tort Liability
- gence
- ition
 - ents of Negligence
 - ard of Care for Reasonable Person
 - ard of Care for Reasonable Professional
- mate Cause and Foreseeability
- tion of Statute
- Negligence ted Negligence
- ibutory Negligence
- arative Negligence
- nption of Risk
- Clear Chance
- osa Loquitur
- ges for Negligence

19.16	Medical Malpractice 317	23.5	Trends in Medicine, Accounting and Law
19.17	Standard of Care for Children 318	20.4	Vicarious Liability
and	d	21.2	Intent
19.18	Tort Injury to Minors 318	21.2	Intent
19.19	Torts of Mentally Retarded Persons 319	21.2	Intent
19.20	Governmental Tort Liability 319	20.5	Immunities
19.21	Negligence of Government Officials 320	20.5	Immunities
19.22	Charitable Institutions 320	20.5	Immunities
19.22	Liability of Landowners 321	23.2.1	Liability of Landowners
19.23	Liability of Lessors 324	23.2.3	Liability of Lessors
NEW	Elability of Lessons 324	23.2.3	Liability of Lessers v Lessors
NEW		23.2.5	Damages for Real Property Torts
19.25	Liability of Vendor of Goods 325	23.4.2	Manufacture/Distribution Defective Goods
19.26	Guest Statutes 326	22.15	Guest Statutes
19.27	Family-Purpose Doctrine 327	22.16	Family Purpose Doctrine
19.28	Nuisance 327	21.9	Nuisance
19.29	Emotional Disturbances 328	21.10	Emotional Disturbance
19.30	Survival Statutes and Wrongful-Death Acts 331	24.4	Survival Statutes and Wrongful-Death Acts
19.31	Intrafamily Torts 332	24.5	Intrafamily Torts
SUBH	Torts That Are Usually Intentional 333	CH 21	Torts based Upon Intentional Actions
19.32	Introduction 333	21.1	Introduction
NEW		21.2	Intent
19.33	Fraudulent Misrepresentation 333	21.16	Fraudulent Misrepresentation
19.34	Defamation 333	21.10	Defamation
19.35	Right of Privacy 335	21.12	Right to Privacy
19.36	Malicious Prosecution 336	21.17	Malicious Prosecution
NEW		21.18	Malicious Use of Process
19.37	False Arrest and Imprisonment 336	21.5	False Imprisonment
19.38	Interference with Business Relations 337	21.15	Interference with Economic Relations
19.39	Slander of Title 338	21.14	Injurious Falsehood
19.40	Assault, Battery 338	21.3	Battery
and	d	21.4	Assault
NEW		21.10	Emotional Disturbance
NEW		21.11	Intentional Infliction of Emotional Distress
19.41	Conversion 339	21.7	Conversion
NEW		21.8	Trespass to Chattel
19.42	Trespass 339	21.6	Trespass to Land
NEW		21.19	Punitive Damages for Intentional Torts
SUBH	Liability without Fault 339	20.4	Vicarious Liability
19.43	Respondeat Superior 339	20.4	Vicarious Liability
19.44	Nondelegable Duties 340	20.4	Vicarious Liability
19.45	Worker's Compensation Acts 340	20.4	Vicarious Liability
19.46	Extrahazardous Activity 341	23.3.3	Strict Liability for Extra-Hazardous Activity
NEW	ExtranaZardous Activity 541	23.3.2	
			Strict Liability for Non-Dangerous Animals
19.47	Dangerous Instrumentality 342	23.3.1	Strict Liability for Dangerous Instrumentality
NEW		23.3.4	Damages for Strict Liability
19.48	No-Fault Insurance 342	20.4	Vicarious Liability
GTT 8 0	N A N N N N N N N N N N		
CH 20	Professional Liability of Architects and Engineers 345	CH 25	Professional Liability f/ A/E's
20.1	Scope of the Problem 345	25.1	Scope of the Problem
20.2	Definitions and Distinctions 346	25.2	Definitions and Distinctions
20.3	The Architect's Undertaking 346	25.3	The Architect's Undertaking
20.4	The Requisite Degree of Skill 347	25.4	The Requisite Degree of Skill
20.5	Duty to the Owner-Employer 348	25.5	Duty to the Owner-Employer
20.6	Measure of Damages for Defective Plans / Inspection 349	25.6	Damages for Defective Plans
and		25.7	Measure of Damages for Defective Inspection
20.7	Liability to Third Parties 349	25.8	Liability to Third Parties
20.8	The Trend toward Liability without Fault 351	25.9	The Trend toward Liability without Fault
20.9	Defensive Posture 357	25.10	Defensive Posture
20.10	Measure of Damages for Personal Injury 359	25.11	Measure of Damages for Personal Injury
20.10	Problems of Proof 359	25.11	Problems of Proof
		25.12 25.13	
20.12	A Representative Case 360 Small Things May Prove Important, 263		A Representative Case
20.13	Small Things May Prove Important 363	25.14	Small Things May Prove Important
20.14	Indemnification Clauses and the Third-Party Demand 366		Indemnification Clauses
20.15	A Case to Think About 367	25.16	A Case to Think About

CH 21	Insurance and Bonds 371	CH 17	Insurance	
21.1	Introduction 371	17.1	Introduction	
21.2	Nature of Insurance 371	17.2	Nature of Insurance	
21.3	The Policy Is a Contract 372	17.3	The Policy Is a Contract	
21.4	Insurable Interest 372	17.4	Insurable Interest	
21.5	Governmental Regulation 373	17.5	Governmental Regulation	
21.6	Some Types of Insurance Coverage 374	17.6	Some Types of Insurance Coverage	
21.7	Professional Liability Insurance for A/E's 376	17.7	Professional Liability Insurance for A/E's	
21.8	Owner's Protective Liability Insurance 378	17.8	Owner's Protective Liability Insurance	
21.9	Contractor's Liability Insurance 378	17.9	Contractor's Liability Insurance	
21.10	Builders' Risk Policies 380	17.10	Builders' Risk Policies	
ar	nd	CH 18	Bonds and Suretyship	
21.11	Bonds in General 382	18.1	Bonds in General	
NEW		18.2	Tripartite Parties to a Bond	
21.12	Fidelity Bonds 382	18.3	Fidelity Bonds	
NEW		18.4	Bail Bonds	
21.13	Surety Bonds 382	18.5	Surety Bonds	
21.14	Bonds in Public Work 383	18.6	Bonds in Public Work	
21.15	Contract Bonds 384	18.7	Contract Bonds	
NEW		18.8	Principal's Relations with Surety	
NEW		18.9	Obligee's Relations with Surety	
CH 22	Real Property 391	CH 26	Real and Personal Property	
NEW		26.1	History of Ownership of Real/Personal Property	
22.1	Nature of Real Property 391	26.2	Realty v Personalty	
22.2	Ownership 391	26.3	Ownership of When	
	nd	26.4	Ownership by Whom	
ar	nd	26.5	Ownership of What	
22.3	Condominiums 393	26.5	Ownership of What	
22.4	Encumbrances 393	26.6	Encumbrances Upon Realty	
22.5	Mortgages 394	26.7.5	Mortgages	
22.6	Servitudes 395	26.6	Encumbrances Upon Realty	
22.7	Easements 395	26.6.1	Easements	
	nd	26.6.2	Nature of Easements	
	nd	26.6.3	Easement Acquisition	
22.8	Licenses 396	26.6.4	Licenses	
22.9	Profit a Prendre 396	26.6.5	Profits	
NEW		26.6.6	Covenants	
NEW		26.6.7	Equitable Servitude	
22.10	The Doctrine of Support 397	23.2.2	Liability for Lateral and Subjacent Support	
22.11	Rental of Real Property 399	26.8	Landlord / Tenant Relationships	
NEW		26.8.1	Types of Leases	
NEW		26.8.2	Duties of the Landlord	
NEW		26.8.3	Duties of the Tenant	
22.12	Disposing of Real Property 400	26.9	Mechanics of Transfer of Title	
22.12	Mechanics of the Sale Transaction 401	26.9	Mechanics of Transfer of Title	
22.14	Contract of Sale 401	26.9.1	Contract of Sale	
22.15	The Deed; Function and Types 402	26.9.2	The Deed	
NEW		26.9.3	Surveying and Boundary Law	
22.16	Recordation 405	26.9.4	Recordation	
22.10	Dedication 406	26.9.5	Dedication	
22.17	Acquiring Title by Adverse Possession 407	26.9.4	Adverse Possession	
22.10	Eminent Domain 408	26.9.6	Eminent Domain	
22.20	Zoning 408	26.9.8	Zoning	
NEW	Zohnig 400	26.9.9	Taxes	
NEW		26.9.10	Liens	
		20.7.10	Licits	
CH 23	Water Rights 413	CH 27	Above and Below –Water, Air and Minerals	
23.1	Introduction 413	27.1	Introduction	
23.1	Definitions and Distinctions 413	27.1	Definitions and Distinctions	
23.2 23.3		27.2		
	Riparian Rights 415 nd	27.5	Riparian Rights Percolating Water	
23.4		27.4 27.6	-	
	Appropriative and Prescriptive Rights 419 Overlying Rights: Groundwater 422	27.6	Appropriation Overlying Rights: Groundwater	
23.5	Overlying Rights; Groundwater 422 Surface Water: The Common Energy Destring 424		Overlying Rights; Groundwater	
23.6	Surface Water; The Common-Enemy Doctrine 424	27.5 27.9	Surface Water Drainage	
23.7	Navigable Waterways 425	21.9	Navigable Waterways	

23.8			
	Reservoirs 426	27.10	Reservoirs
23.9	Rights to Water Power 426	27.11	Rights to W
23.10	Mining 427	27.12	Mining
23.11	Flood Control 428	27.12	Flood Contr
23.12	State Water Codes 430	27.14	State Water
	State Water Codes 450		Air Rights
			Mineral Rig
		27.10	Willieful Rig
CH 24	Intellectual Property 435	CH 28	Intellectual
	Introduction 435		Introduction
			Definitions
	-		Patent Reco
			Patentability
			Application
			Specificatio
			Claims
			Validity
	•		Date of Con
	-		Reduction to
			Diligence
			Keeping No
			Ownership
	•		Secret Infor
	-		Licenses, A
			Patents on N
24.17	Copyrights and Trademarks 454	28.17	Copyrights
СН 25	Evidence 161	37	Evidence
			Evidence
	-		Civil Proced
			Civil Procee
			Evidence
			Evidence
			Evidence
			Evidence Evidence
			Evidence
23.7	Reference Material as Evidence 470	5.2	Evidence
CH 26	The Engineer's Role in a Lawsuit 473	CH 38	The Engine
			Introduction
			Engineer as
			Compensati
			Qualificatio
			Knowledge
			Necessity fo
			Discovery
	e e i i		Commencin
			Preparing to
			Presentation
			Testifying d
			Testifying d
			Objections l
20.15	objections to the Questioning 107	50.15	objections
CH 27	Arbitration of Disputes 491	CH 40	The Engine
	-		Function of
27.2	Definition of Arbitration 491	40.2	Definition of
27.3	Distinctions 492	40.3	Distinctions
27.4	The Demand or Submission 493	40.4	The Deman
	Resort to Arbitration 493	40.5	Resort to A
21.5	Disputes Subject to Arbitration 496	40.6	Disputes Su
27.5 27.6		40.0	
27.6			-
27.6 27.7	Scope of Arbitrator's Authority 497	40.7	Scope of Ar
27.6 27.7 27.8	Scope of Arbitrator's Authority 497 Reference to Courts 497	40.7 40.8	Scope of Ar Reference to
27.6 27.7 27.8 27.9	Scope of Arbitrator's Authority 497 Reference to Courts 497 Role and Qualifications of an Arbitrator 498	40.7 40.8 40.9	Scope of Ar Reference to Role and Qu
27.6 27.7 27.8 27.9 27.10	Scope of Arbitrator's Authority 497 Reference to Courts 497 Role and Qualifications of an Arbitrator 498 Selection of an Arbitrator 498	40.7 40.8 40.9 40.10	Scope of An Reference to Role and Qu Selection of
27.6 27.7 27.8 27.9	Scope of Arbitrator's Authority 497 Reference to Courts 497 Role and Qualifications of an Arbitrator 498	40.7 40.8 40.9	Scope of Ar Reference to Role and Qu
	NEW NEW CH 24 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8 24.9 24.10 24.11 24.12 24.13 24.14 24.15 24.16 24.17 CH 25 25.1 25.2 25.3 25.4 25.5 25.6 25.7 25.8 25.9 CH 26 26.1 26.2 26.3 26.4 26.5 26.6 26.7 26.8 26.9 26.10 26.11 26.12 26.13	NEW NEWCH 24Intellectual Property 43524.1Introduction 43524.2Definitions and Purposes 43524.3Patent Records 43724.4Patentability 43824.5Application for a Patent 43924.6Specifications 44024.7Claims 44124.8Validity 44324.9Date of Conception of Idea 44424.10Reduction to Practice 44524.11Diligence 44524.12Keeping Notes on the Invention 44624.13Ownership of the Patent 44724.14Secret Information 44824.15Licenses, Assignments, and Grants 44924.16Patents on New Technology 45124.17Copyrights and Trademarks 454CH 25Evidence 46125.1Evidence In Court Generally 46125.2Function of Judge and of Jury 46425.3The Hearsay Evidence Rule and Its Exceptions 46625.4Competency of Witnesses 46525.5The Hearsay Evidence Rule and Its Exceptions 46625.6Admissions and Confessions as Evidence 46825.7The Best-Evidence Rule 46925.9Reference Material as Evidence 470CH 26The Engineer's Role in a Lawsuit 47326.1Introduction: Function of an Engineer in a Lawsuit 47326.2The Engineer as Expert Witness 47326.3The Expert Witness's Compensation 47526.4Qualification of Witness as "Expert" 47526.5Knowledge of Subject 47826.6Ne	NEW 27.15 NEW 27.16 CH 24 Intellectual Property 435 CH 28 24.1 Introduction 435 28.1 24.2 Definitions and Purposes 435 28.2 24.3 Patent Records 437 28.3 24.4 Patentability 438 28.4 24.5 Application for a Patent 439 28.5 24.6 Specifications 440 28.6 24.7 Claims 441 28.7 24.8 Validity 443 28.8 24.9 Date of Conception of Idea 444 28.9 24.10 Reduction to Practice 445 28.11 24.12 Keeping Notes on the Invention 446 28.12 24.13 Ownership of the Patent 447 28.13 24.14 Secret Information 448 28.14 24.15 Licenses, Assignments, and Grants 449 28.15 24.16 Patents on New Technology 451 3.16 25.1 Evidence In Court Generally 461 3.2 25.3 Presumptions and Evidentiary Burdens of Proof 465 3.3

Water Power

- ntrol
- ter Codes
- Rights
- al Property
- ion
- ns and Purposes
- cords
- lity
- on for a Patent tions
- Conception of Idea
- n to Practice
- Notes on the Invention
- ip of the Patent
- formation
- Assignments, and Grants
- n New Technology
- ts and Trademarks
- cedure
- cedure
- neer's Role in Litigation
 - ion
 - as an Expert
 - ation of an Expert
 - tions of an Expert
- ge of Subject
- for Honest Advice
- cing a Suit
- to Testify
- ion of Information
- g during the Direct Examination
- g during the Cross-Examination
- ns by Counsel
- neer's Role in Arbitration
- of Arbitration
- n of Arbitration
- ons
- and or Submission
- Arbitration
- Subject to Arbitration
- Arbitrator's Authority
- e to Courts
- Qualifications of an Arbitrator
- of an Arbitrator
- e in Arbitration
- The Award 40.12

27.13 Allocation of Costs of Arbitration 500

27.14 Mediation 500

28.30

28.31

28.32

Ocean Dumping 524

Pesticides 525

Solid Wastes 525

- CH 28 Federal Law of Importance to Design Professionals 503 28.1 Introduction 503 28.2 Sources of Federal Law 503 Limitations on Federal Power 504 28.3 28.4 Federal Statutes and Regulations 505 28.5 Relationship to State Law 505 SUBH Labor Law 506 Introduction 506 28.6 28.7 Labor Organizations 507 28.8 The National Labor Relations Board 508 28.9 Fair Labor Standards 508 28.10 Unfair Labor Practices 509 28.11 Occupational Health and Safety 510 and 28.12 **Employment Discrimination 511** Affirmative Action 513 28.13 28.14 Americans with Disabilities Act 514 SUBH Environmental Law 515 28.15 Introduction 515 28.16 National Environmental Policy Act 516 28.17 Council on Environmental Quality 516 28.18 Environmental Impact Statements 517 28.19 Air Pollution Control 518 28.20 Clean Air Act; Air Quality Standards 519 28.21 New Stationary Sources 519 28.22 Nondegradation 520 28.23 Mobile Sources 520 28.24 Noise Pollution 521 Water Pollution 522 28.25 28.26 Point Source Discharges 522 28.27 Nonpoint Sources 523 28.28 Dredged Material 523 28.29 Oil and Hazardous Substances 254
- 40.13 Allocation of Costs of Arbitration
- 40.14 Mediation
- SPLIT as noted below 2.1.3 Federal v State Law 19.2 Labor Law 19.7 Occupational Health and Safety Act 37.8 **OSHA** Design Considerations 19.3 **Employment Discrimination** 19.4 Affirmative Action 19.5 Americans with Disabilities Act 37.7 ADA Design Considerations 37.9 Environmental Law Design Considerations 37.9.1 Introduction 515 37.9.2 National Environmental Policy Act 37.9.3 Council on Environmental Quality 5 37.9.4 Environmental Impact Statements 5 37.9.5 Air Pollution Control 518 37.9.6 Clean Air Act; Air Quality Standards 37.9.7 New Stationary Sources 519 37.9.8 Nondegradation 520 37.9.9 Mobile Sources 520 37.9.10 Noise Pollution 521 Water Pollution 522 37.9.11 37.9.12 Point Source Discharges 522 37.9.13 Nonpoint Sources 523 37.9.14 Dredged Material 523 37.9.15 Oil and Hazardous Substances 254 37.9.16 Ocean Dumping 524 37.9.17 Pesticides 525
 - 37.9.18 Solid Wastes 525
