Contents

1	Intro	oduction	
	1.1	Backgr	ound
		1.1.1	Diversity and Unclarity
		1.1.2	The Price of Precaution
		1.1.3	Precaution, Risk Analysis and Models of Rationality
		1.1.4	The Ideal of the Desirability of Precaution
	1.2	Aim, P	lan and Basis
		1.2.1	Plan of the Book
		1.2.2	The Requirement of Precaution
		1.2.3	Degrees of Precaution
	Refe	rences	
2	Dime	ensions o	f Precaution
-	2.1		Levels and Time-Horizons
		2.1.1	Values
		2.1.2	Levels and Time-Horizons
	2.2	May Bi	ring Great Harm
		2.2.1	De Minimis Risk and the Need for a Limit
		2.2.2	The Argument from Decision Costs
	2.3	Show .	-
		2.3.1	Proof-Standards
		2.3.2	Decisional Paralysis
		2.3.3	The Holistic Nature of Precaution
		2.3.4	Conservatism and Arbitrariness
	2.4	Risk .	
		2.4.1	Likelihoods, Values or Combinations?
		2.4.2	Quantities, Qualities and Levels of Precision
		2.4.3	Objective or Subjective?
	2.5	Too Sei	rious
	2.6	Summi	ng Up
	Refei	ences.	· · ·

3	Precaution and Rationality						
	3.1	Ration	al Action – the Standard View	39			
		3.1.1	Efficiency, Value Neutrality and Calculated				
			Risk Taking	40			
		3.1.2	Enlightment Critique and the Charge of				
			Instrumental Rationality	42			
	3.2	Ration	al Precaution	44			
		3.2.1	Ignorance, Precaution and the Maximin Rule	44			
		3.2.2	Limitations of Plausibility, Applicability and Status	47			
	3.3	3 From Rationality to Morality					
		3.3.1	Rawls' Appeal to Responsibility	50			
		3.3.2	Moral Opinions About Risk Impositions	51			
		3.3.3	Moral Dilemmas of Precaution	52			
	Refe	rences.		54			
4	Ethio	cs and R	lisks	55			
	4.1	Traditi	ional Criteria of Rightness	56			
		4.1.1	The Diversity of Normative Ethics	56			
		4.1.2	Factualism and the Silence on Risks	58			
		4.1.3	Autonomy and Justice	59			
		4.1.4	The Two Level Approach	61			
	4.2	The Vi	irtue of Precaution	63			
	4.3	Aband	oning Factualism	67			
		4.3.1	The Forbidden Risks Approach	67			
		4.3.2	Trading Off Risks and Harms 1: Apples and Oranges	73			
		4.3.3	Trading Off Risks and Harms 2: Improving				
			Practical Guidance	77			
		4.3.4	Trading Off Risks and Harms 3: The				
			Knowability Argument	78			
		4.3.5	Trading Off Risks and Harms 4: Back to Square One	80			
	Refe	rences.		82			
5	The 1	Morality	y of Imposing Risks	85			
	5.1	Basic Structure					
	5.2	The Problem of Guidance					
	5.3	Basic]	89				
		5.3.1	Absolutes or Degrees?	89			
		5.3.2	What About Intentions?	92			
		5.3.3	Assessing and Comparing Degrees of Responsibility	95			
		5.3.4	Avoiding Indeterminacy – Possibility and Desirability .	99			
	5.4		of Precaution	101			
		5.4.1	Beyond Risk Neutrality	103			
		5.4.2	The Quality of Available Evidence	104 106			
	5.5	The Weight of Evil					
		5.5.1	Conceptual Preliminaries	107			
		5.5.2	Five Approaches	108			

		5.5.3	The Case Against Rigidity 11	0
		5.5.4	Rigidity of Aggregation and the Notion of Rights 11	2
		5.5.5	Simple Progressiveness	5
		5.5.6	The Case for Relative Progressiveness	8
	5.6	Probler	ns with Relative Progressiveness	2
		5.6.1	What Implications for other Normative Issues? 12	2
		5.6.2	The Lack of Numerical Exactness	3
		5.6.3	What Size of the Weight?	4
		5.6.4	Pure or Mixed Relative Progressiveness?	5
		5.6.5	What Makes for an Acceptable Mix of Risks	
			and Chances?	6
	5.7	Summi	ng Up	9
	Refer	ences	13	1
6	Droot	ical Any	Dications	2
U	6.1		l Cases	
	0.1	6.1.1	Consumerism 13	
		6.1.2	Why Individual Motivation Should Not Be the Target . 13	
		6.1.2	Precaution as a Collective Good and the Need	9
		0.1.5	for a Politics of Power	1
	6.2	Hand C		
	0.2	6.2.1		
		6.2.1	Climate Change and Pollution14Nuclear Power and Energy Production14	
		6.2.2	Biotechnology	
	6.3	Policy	25	
	0.5	6.3.1	Do We Really Need a PP? 16	
		6.3.2	Principlism vs. Proceduralism	
		6.3.3	De Minimis Revisited	
		6.3.4	Justifying the Proof Requirement of Justifiable	U
		0.5.4	Policy Claim	Q
		6.3.5	Justifying the Burden of Proof Requirement	
		6.3.6	Conservatism Revisited	
	6.4	Big Qu		
	0.4	6.4.1	The Enlightment Ideals Revisited	
		6.4.2	The Remaining Challenge of Values	
		6.4.3	The Case for Cosmopolitan Precaution	
		6.4.3	Unrealistic and Dangerous?	
		6.4.4 6.4.5	A Challenge for Liberal Democracy?	
	Dafar			
	Refer	ences.		12
In	dex .			5