

Electrical and Electronic Practical Ecodesign Guide



	<i>Page</i>
List of Figures	7
Preface	9
Foreword	11
Preface	13
Chapter 1: About this Guide	15
1.1.- Goals of the guide	15
1.2.- Target group	16
1.3.- Scope	16
1.4.- Structure	17
1.5.- References	18
Chapter 2: Importance of Ecodesign	19
2.1.- The environmental point of view	19
2.2.- The business point of view	22
2.3.- Ecodesign and the different sustainability tools	24
2.4.- References	26
Chapter 3: Ecodesign Methodology	27
3.1.- Ecodesign	27
3.1.1.- Product requirements readjustment	29
3.1.2.- Environmental product evaluation	30
3.1.2.1.- Qualitative and abridged life cycle assessment	30
3.1.2.2.- Quantitative life cycle assessment	33
3.1.3.- Ecodesign guidelines application	35
3.2.- References	36

	<i>Page</i>
Chapter 4: Practical Ecodesign Guidelines	39
4.1.- Production and supply of materials and components	40
4.2.- End product manufacture	49
4.3.- Product distribution to customers	55
4.4.- Product use	61
4.5.- Product end-of-life	68
4.6.- References	86
Chapter 5: Ecodesign & LCA Practical Application at Lear Corporation	89
5.1. Introduction	89
5.2. Company overview	90
5.3.- Application of Life Cycle Assessment to our products and processes	93
5.4. - Design for Environment application and implementation	97
5.4.1. DfE application to a Passive Junction Box	97
5.4.2.- DfE application to Wire-harness Recyclability	99
5.4.3. DfE application to Electronic Devices (Smart Junction Boxes)	99
5.4.4. DfE Checklist development	100
5.4.5.- DfE practical cases ("Green" ASJB)	101
5.5. Conclusions	102
Chapter 6: Environmental Trends in the Electrical-Electronic and the Automobile Industry	103
6.1.- Introduction	103
6.2.- New Regulations in the electrical-electronic and the automobile industry	103
6.3.- Environmental activities in the electrical-electronic and in the automobile industry	104
6.4.- Market trends in the electrical-electronic and in the automobile industry	107
6.5.- References	109
Chapter 7: Organisations	111
Annex I: Ecotools	117
Life Cycle Inventory (LCI) ecotools	118
Life Cycle Assessment (LCA) ecotools	119
Materials Selection ecotools	123
Design for "X" (DfX) ecotools	124
Handbooks and Checklists	125
References	126