



ΠΑΝΕΜΙΣΤΗΜΙΟ ΔΥΤΙΚΗΣ ΑΤΤΙΚΗΣ

ΣΧΟΛΗ ΜΗΧΑΝΙΚΩΝ

ΤΜΗΜΑ ΗΛΕΚΤΡΟΛΟΓΩΝ & ΗΛΕΚΤΡΟΝΙΚΩΝ ΜΗΧΑΝΙΚΩΝ

ΠΤΥΧΙΑΚΗ ΕΡΓΑΣΙΑ



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ABSTRACT

In the master thesis that follows, we shall analyze the term of recycling and what this term includes, we shall examine the recycling methods, the procedures and stages comprised in the recycling methods of every recyclable material, as well as the meaning and the benefits it brings to health and economy as a total.

Moreover, we shall examine the valuable metals available in our planet, their properties and the way of obtaining them from under the earth, but also the ways these are used in financial industry.

Next, we shall describe every electronic and other device in which these valuable metals are used, which need to be recycled, so as for these metals not to be released in the environment, as they can become very dangerous and they may disturb the balance of the human body, since, in case they get released in the water or the air, they are considered to be extremely cancerous.

What follows is the recycling of valuable metals, during which a certain methodology is applied, during which the metals go through specific stages in a way that each of them undergoes specific procedures before the final recycling stage, while we also extensively describe the reasons for which, out of the broader term of recycling there has been created a whole new industrial sector specializing in recycling.

Finally, we describe the social and cultural extensions of metal recycling, which include the metal industry, the demand for minerals and the mining of metals, and also the dangers of this particular work, the social problems arising from all the above as well as the child exploitation that comes as a result of mining economy.

	μ	1
➤	$1^0:$	4
1.1.	μ	4
1.2.	, μ	7
	$\mu\mu$	7
1.3.	.....	9
1.4.	.....	10
1.5.	μ	11
1.6.	.....	18
1.7.	μ	18
1.8.	μ	20
1.9.	μ	21
1.10.	.....	23
1.11.	.....	24
1.12.	μ	25
1.13.	μ	25
1.14.	.....	26
1.15.	.....	34
1.16.	μ	34
➤	$2^0:$ μ	38
2.1.	μ μ μ μ	38
	μ	38
2.1.1.	(Rh).....	38
2.1.2.	(Gold) – μ \$GOLD (CME).....	39
2.1.3.	(Ir)	39
2.1.4.	(Pd)	40
2.1.5.	μ (Os).....	40
2.1.6.	(Ru).....	41
2.1.7.	(Fe-C).....	41

2.1.8.	() (Mo).....	42
2.1.9.	(Cr).....	43
2.1.10.	(Cu).....	45
2.1.11.	(Pb).....	46
2.1.12.	(Ni).....	47
2.1.13.	(Zn).....	49
2.1.14.	(Ti).....	51
2.1.15.	(Co).....	52
➤	3 ⁰ : μ μ 	53
➤	4 ⁰ : μ 	65
4.1.	μ 	65
4.2.	.....	67
4.2.1.	.....	68
4.3.	μ 	69
4.4.	.....	73
4.4.1.	.....	73
4.4.2.	μ μ 	74
4.4.3.	.....	75
4.5.	μ 	76
4.6.	.....	76
4.7.	μ 	79
4.8.	.....	84
4.8.1.	μ μ 	84
4.8.2.	87
4.9.	88

➤	5 ⁰ :	μ	91
		μ	91
5.1.		μ	91
5.1.1.	Н	-	μ
		μ	94
5.2.		μ	20
		μ	97
5.3.		μ	,
			=
			100
5.4.			μ
			101
5.5.		μ	101
5.6.		μ	102
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			μ
			103
5.8.		μ	103
5.9.		μ	103
5.10.			μ
			104
5.11.		μ	μ
		μ	μ
			104
5.12.			smartphones.....	108
5.13.			109
5.14.			μ
			111
➤	6 ⁰ :	-	.....	114
6.1.			.....	114
6.2.			.....	116