

EPL 445 – 4^η Εργαστηριακή Άσκηση

Μέρος Α: Θεωρητικό

$$I_1 =$$

7	4	8
15	0	2
6	12	1

$$I_2 =$$

0.0251	0.1453	0.0251
0.1453	0.3183	0.1453
0.0251	0.1452	0.0251

$$J(0,0) = (7*0.3183) + (4*0.1453) + (15*0.1453) + (0*0.0251)$$

$$= 2.2281 + 0.5812 + 2.1795 + 0$$

$$= \mathbf{4.9888}$$

$$J(0,1) = (7*0.1453) + (4*0.3183) + (8*0.1453) + (15*0.0251) + (0*0.1453) + (2*0.0251)$$

$$= 1.2732 + 1.0171 + 1.1624 + 0.3765 + 0 + 0.0502$$

$$= \mathbf{3.8794}$$

$$J(0,2) = (4*0.1453) + (8*0.3183) + (0*0.0251) + (2*0.1453)$$

$$= 2.5464 + 0.5812 + 0 + 0.2906$$

$$= \mathbf{3.4182}$$

$$J(1,0) = (7*0.1453) + (4*0.0251) + (15*0.3183) + (0*0.1453) + (6*0.1453) + (12*0.0251)$$

$$= 1.0171 + 0.1004 + 4.7745 + 0 + 0.8718 + 0.3012$$

$$= \mathbf{7.065}$$

$$J(1,1) = (7*0.0251) + (4*0.1453) + (8*0.0251) + (15*0.1453) + (0*0.3183) + (2*0.1453) + (6*0.0251)$$

$$+ (12*0.1453) + (1*0.0251)$$

$$= 0.1757 + 0.5812 + 0.2008 + 2.1795 + 0 + 0.2906 + 0.1506 + 1.7436 + 0.0251$$

$$= \mathbf{5.3471}$$

$$J(1,2) = (4*0.0251) + (8*0.1453) + (0*0.1453) + (2*0.3183) + (12*0.0251) + (1*0.1453)$$

$$= 0.1004 + 1.1624 + 0 + 0.6366 + 0.3012 + 0.1453$$

$$= \mathbf{2.3459}$$

$$J(2,0) = (15 * 0.1453) + (0*0.0251) + (6*0.3183) + (12*0.1453)$$

$$= 2.1795 + 0 + 1.9098 + 1.7436$$

$$= \mathbf{5.8329}$$

$$J(2,1) = (15*0.0251) + (0*0.1453) + (2*0.0251) + (6*0.0251) + (12*0.3183) + (1*0.1453)$$

$$= 3.8196 + 0 + 0.0502 + 0.8718 + 3.8196 + 0.1453$$

$$= \mathbf{5.2634}$$

$$J(2,2) = (0 \cdot 0.0251) + (2 \cdot 0.1453) + (12 \cdot 0.1453) + (1 \cdot 0.3183)$$

$$= 0 + 0.2906 + 1.7436 + 0.3183$$

$$= 2.3525$$

$$J = I1 \cdot I2$$

4.9888	3.8794	3.4182
7.065	5.3471	2.3459
5.8329	5.2634	2.3525