

**Volume 5****Q-Values and Excitation Functions of Nuclear Reactions****Subvolume C****Estimation of Unknown Excitation Functions and Thick Target Yields for p, d, He-3 and Alpha-Reactions**

	Introductory material	
1	Q-values for nuclear reactions	
2	Excitation functions for charged-particle induced nuclear reactions	
3	Estimation of unknown excitation functions and thick target yields for p, d, He-3 and alpha reactions	1
3.1	Introduction	1
3.2	Excitation functions	1
3.3	Thick target yields	6
3.4	Accuracy	8
3.5	How to obtain excitation functions and thick target yields	11
3.6	Tables	17
3.6.1	Table 5: Parameter kappa	17
3.6.2	Table 6: Threshold energy	48
3.6.3	Table 7: Correction factor	80
3.7	Figures	81
3.7.1	Effective Coloumb barrier vs. Z	81
3.7.2	Mean threshold energy vs. Z	82
3.7.3	Maximum cross section vs. kappa	86
3.7.4	Position of maximum vs. kappa	90
3.7.5	Correction factor vs. mean projectile energy and Z	94
3.7.6	Maximum cross section and position of maximum vs. effective Coloumb barrier	96
3.7.7	Reference excitation functions	98
3.7.8	Reference curves for thick target yields	178