بسم الله الرحمن الرحيم

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Ain Shams University
Faculty of Science
Chemistry Department

Specific Versus Nonspecific Solvent Effects on the Intramolecular Charge Transfer in Aminonapthalene Derivatives

A Thesis
Submitted for the Degree of Master of Science
As Partial Fulfillment for Requirements of Master of Science
"Chemistry Department"

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In fact, I would like to thank God for enerything in my life and I hope I gainHis satisfaction in every step I take.

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Yara Hagrass

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Symbol	Scientific meaning
A	Absorbance
C	Concentration
E	Energy
Φ_f	Fluorescence quantum yield
Φ_u	Fluorescence quantum yieldof unknown
Φ_S	Fluorescence quantum yieldof Standard
n	Refractive index
F	fluorescence spectra
I_o	intensity at zero time (upon excitation)
I(t)	intensity at time t
τ	lifetime
t	Time
τ_q	Excited state fluorescence lifetime in presence of quencher
τ_0	Excited state fluorescence lifetime in absence of quencher
I_f	Fluorescence intensity
k_f/k_r	Radiative rate constant