

Ain Shams Engineering Journal

CHIEF EDITORIAL BOARD

Prof. Mohamed Ayman Ashour
Faculty of Engineering, Architecture Engineering,
Ain Shams University, Egypt
E-mail: mohamed_ashour@eng.asu.edu.eg

Prof. Mahmoud Mohamed Aboel Nasr
Faculty of Engineering,
Mechanical Power Engineering,
Ain Shams University, Egypt
E-mail: mahmoud_aboelnasr@eng.asu.edu.eg

Prof. Amin Kamel El-kharbotly
Faculty of Engineering, Industrial Engineering,
Ain Shams University, Egypt
E-mail: editor@eng.asu.edu.eg

Prof. Adel Helmy Salem
Faculty of Engineering, Civil Engineering, Steel
Ain Shams University, Egypt
E-mail: adel_salem@eng.asu.edu.eg

Prof. Mohamed Abdel Latif Badr
Faculty of Engineering,
Electrical Power Engineering
Ain Shams University, Egypt
E-mail: mohamed_badr@eng.asu.edu.eg

Prof. Farid Abdel Aziz Tolba
Faculty of Engineering, Mechantronics
Ain Shams University, Egypt
E-mail: farid_tolba@eng.asu.edu.eg

Prof. Omar Abdel Halim Omar
Faculty of Engineering, Physics
Ain Shams University, Egypt
E-mail: omar_abdelhalim@eng.asu.edu.eg

Prof. Yoohansen Yehya M. Eid
Faculty of Engineering, Urban Planning
Ain Shams University, Egypt
E-mail: yoohansen_eid@eng.asu.edu.eg

Prof. Ahmed Hussein
Faculty of Engineering, Administration, Board
Secretary
Ain Shams University, Egypt
E-mail: Journal_secretary@eng.asu.edu.eg

EDITORIAL BOARD

Prof. Amin Kamel El-kharbotly
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: editor@eng.asu.edu.eg

Prof. Fathalla Mohamed F. El-Nahhas
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0105072991
E-mail: fathalla_elnahhas@eng.asu.edu.eg

Prof. Almoataz Youssef Abdel Aziz
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0101372930
E-mail: almoataz_abdelaziz@eng.asu.edu.eg

Prof. Mohamed Ahmed Taha
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0122182427
E-mail: mohamed_taha@eng.asu.edu.eg

Prof. Wael Fikry Farouk Fikry
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0127820018
E-mail: wael_fikry@eng.asu.edu.eg

Assoc. Prof. Hoda Kamal Fouad Soussa
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0101130291
E-mail: hoda_soussa@eng.asu.edu.eg

Assoc. Prof. Khaled Adel Elaraby
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: khaled_elaraby@eng.asu.edu.eg

Assoc. Prof. Tarek Kamal Hassan Mohamed
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0127340557
E-mail: tarek_kamal@eng.asu.edu.eg

Assoc. Prof. Salem Mahmoud Elkhodary
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0101760939
E-mail: salem_elkhodary@eng.asu.edu.eg

Assoc. Prof. Ayman Mohamed Bahaa Eldin
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0127343764
E-mail: ayman_bahaeldin@eng.asu.edu.eg

Assoc. Prof. Amr M. E. Safwat
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0124583726
E-mail: amr_safwat@eng.asu.edu.eg

Assoc. Prof. Ahmed Youssif El Assy
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0105205225
E-mail: ahmed_lassy@eng.asu.edu.eg

Assoc. Prof. Salem Abdel Kreem Haggag
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0103107583
E-mail: salem_haggag@eng.asu.edu.eg

Assoc. Prof. Mohamed Ahmed I. Abdel Aziz
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0100014094
E-mail: mohamed_abdelaziz@eng.asu.edu.eg

Assoc. Prof. Hatem Elsayed Hany Elrefaai
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0106995530
E-mail: hatem_elrefaai@eng.asu.edu.eg

Assoc. Prof. Rabab Moustafa I. El-Hassani
Faculty of Engineering,
Ain Shams University, Egypt
Tel.: 0101150920
E-mail: rabab_elhassani@eng.asu.edu.eg

EDITORIAL TECHNICAL OFFICE

Dr. Wael Nabil Hassan Mohamed Akl
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Editorial.office@eng.asu.edu.eg

Dr. Maged Abedo
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Editorial.office@eng.asu.edu.eg

Dr. Yomna Mahmoud Sadek
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Editorial.office@eng.asu.edu.eg

Mr. Ahmed Hussein
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Journal_secretary@eng.asu.edu.eg

Mr. Mostafa Abdel Fattah
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Journal_secretary@eng.asu.edu.eg

Mr. Rayda Ahmed Hamouda
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Journal_secretary@eng.asu.edu.eg

Mr. Osama Mohamed Ghaly
Faculty of Engineering,
Ain Shams University, Egypt
E-mail: Journal_secretary@eng.asu.edu.eg