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CURRICULUM VITAE

PERSONAL DATA:

NAME: Dr. Eng. Nabil Abd El-Galil kotb
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NATIONALITY: Egyptian
RELIGION: Muslim
DATE OF BIRTH: 15 JUNE 1946
SOCIAL STATUS: Married-Two children

KNOWLEDGE OF FOREIGN LANGUAGES

Arabic: Native
English : Spoken and written

QUALIFICATIONS

- **Bachelor of Science (B.Sc.)** in Mechanical Power Engineering, High Industrial Institute, Minia, Egypt, (now Faculty of Engineering, Minia University), May 1972. **General grade:** Excellent.
- **Master of Science (M.Sc.)** in Mechanical Power Engineering, Faculty of Engineering and Technology, Minia University Minia, Egypt, 1981.
- **Doctor of Philosophy (Ph. D.)** in Mechanical Engineering, Brunel University, Faculty of Technology. Uxbridge, England, 1988.

PRACTICAL EXPERIENCE

- Working in industry from 1964 to 1967.
- Training at different companies such as:
Suez company for Paper Productions, Suez, Egypt.
Alexandria company for Tire Productions, Alexandria, Egypt.
- In addition, supervising the training of undergraduate students at different Industrial companies and factories for several years.

ACADEMIC EXPERIENCE

From October 1972

Demonstrator in the Department of Mechanical Engineering, Power Section, High Industrial Institute, Minia, Egypt.

Teaching the undergraduate students, supervising the laboratory work and final year projects, along with studying for my Master degree and research.

From October 1980

Assistant Lecturer at the Department of Mechanical Engineering, Faculty of Engineering, Minia University.

From November 1982

- Reading for Ph.D. degree in the Department of Mechanical Engineering, Brunel University, England.
- Have gained extensive experience in the application of computer simulation and numerical calculation in two and three-dimensional low in curved Channel.
- Very good practical experience in using the Hot-Wire Anemometer for measuring the mean velocities and the turbulence components.
- Deep knowledge of FORTRAN and Basic, and experience of the Multics, Unix and Sun operating systems.
- Familiar with IBM and Apple Macintosh computer.

From May 1987

Doing research work and teaching undergraduate students at the Departement of Mech.Eng., Brunel University.

From May 1988

Assistant Professor at the Mech.Power Eng, and Energy Dept., Faculty of Eng. And Technology , Minia University, Minia, Egypt.

From April 1994

Doing research work and working as a post-Doctor at Mechanical and Aerospace Engineering Department, Arizona State University, USA in the field of (CFD) especially in the area of conventional and advanced turbulence modeling in two and three-dimensional flow.

From May 2001

Associate Professor at the Mech.Power Eng, and Energy Dept., Faculty of Eng. And Technology , Minia University, Minia, Egypt.

From June 2006 until now

Emeritus professor in the Department of Energy and Mechanical Power Engineering, Faculty of Engineering, Minia University, Minia, Egypt.

COUNTRIES VISITED

England, France, Holland, Belgium, United State of America, Kingdom of Saudi Arabia, and Libya

TEACHING EXPERIENCES

- Fluid Mechanics and its Applications
- Computational Fluid Dynamics
- Turbulent Flow
- Hydraulic Machines
- Boundary Layers
- Thermodynamics
- Applied Mechanics
- Computer Programming
- AutoCAD, Access & Microsoft Excel
- Engineering Computer Applications
- Numerical Analysis
- Laboratory Work in the field of Mechanical Engineering
- Supervising undergraduate students in the final year projects.

Thesis Supervised

- 1- "Treatment of the Natural Ventilation for Residential Prototypes in Egyptian New Cities Using Numerical Evaluation", Ph.D. Grade, Faculty of Engineering, Minia University, Minia, Egypt. Awarded 1993.
- 2- "An Experimental Investigation of Flow and Heat Transfer over a Curved Surface" M.Sc. Thesis, Faculty of Engineering, Minia University, Minia, Egypt. Awarded 1995.
- 3- "Study of Flow Characteristics and Heat Transfer Through a U-Tube B, ent" M.Sc. Thesis, Faculty of Engineering, Minia University, Minia, Egypt. Awarded 1998.

PUBLICATIONS

- 1- **N.A.E. Kotb, M.A. Wahhab, H.M. Asfour and M.B. Khalil**, "Transport of solids by fluids in closed conduits" The Bulletin of the Faculty of Eng., Minia University, Minia, Egypt. Vol. 2, No. 1, 61-74, 1982.
- 2- **N.A.E. Kotb, M.R. Mokhtarzadeh-Dehghan and A.J. Ward-Smith**, "A numerical study of laminar and turbulent flows in a two dimensional bend with or without a guide vane" I.J. Numerical Method in Eng., Vol. 26, pp. 245-262, 1988.
- 3- **N.A.E. Kotb**, "The effect of downstream tangent on flow and pressure losses in bends with or without a guide vane" First International Conference on Engineering Research Development and Application ERDA " 91, Suez Canal Univ., Faculty of Eng. & Tech., Port-Said, Egypt. pp. 294-305, 1991.
- 4- **N.A.E. Kotb**, "The influence of bend angle on the size of separation regions formed in circular-arc bends" Fourth International conference of Fluid Mechanics, Faculty of Eng., Alexandria Univ., Alexandria, Egypt, 1992.
- 5- **N.A. Mohamed, N.A.E. Kotb and N. Sh. Matta**, "The influence of surface roughness on the flow characteristics of a circular cavity" Eighth International Conference for Mechanical Power Engineering, Faculty of Engineering, Alexandria University, Alexandria, Egypt', 1993.
- 6- **N. A. Kotb and H.A. Attia**, "MHD flow between two parallel plates with heat transfer" Proceedings of 2nd Int. Conf. on Eng. Math. and Phy., Dept. of Eng. Math. and Phy., Faculty of Eng., Cairo Univ., Cairo, Egypt, 1994.

- 7- **Kamal A.Hakiem, Nabil A. Kotb, Nagwa A. Mohamed and Omar A. Azim**, "Experimental investigation of flow on convex-concave curved surface" Bulletin of the Faculty of Engineering, Assiut University, Vol.23, part 1, January 1995.
- 8- **Nabil A. Kotb** , "Application of near-wall turbulence model in a curved channel with separation" Bulletin of Faculty of Engineering, Minia University, Vol. 21, January 1995.
- 9- **Kamal A.Hakiem, Nabil A.Kotb, Nagwa A.Mohamed and Omar A. Azim**, "The effect of inlet air temperature on flow characteristics over convex-concave curved surface", Bulletin of the Faculty of Engineering, Assiut University, Vol.23, part 2, July 1995.
- 10- **H. Aksoy, R.M.C. So and N.A. Kotb**, "Developing square duct flow: an assessment of turbulence modeling and numerical techniques", Tenth Symposium on Turbulent Shear Flows, Pennsylvania State University, USA, August 14-16, 1995.
- 11- **N.A. Kotb and A.J. Ward-smith**, "Flow separation in sharp bends of square cross-section", to be published.
- 12- **N.A. Kotb and A.J. Ward-Smith**, "The influence of a guide vane on the flow in sharp 90° bends of square cross-section", to be published.
- 13- **N. A. Kotb, Nabil Sh. Matta and Nagwa A. Mohamed** "Flow Structure downstream a backward facing Step" ,Bulletin of The Faculty of Engineering, Assiut University, Vol. 27, Part 1.,63-75, January 1999.
- 14- **N.A.Kotb and Hazim A. Attia** " The effect of variable viscosity on the transient MHD flow and heat transfer between two parallel plates ", Bulletin of The Faculty of Engineering, Assiut University, Vol. 26, Part 2., 141-147, July 1998.
- 15- **N.A.Kotb, El-Moghazy I.M , Hegazy A.A and Mahmoud M.A** "Flow and Heat Transfer Characteristics Through A U-Bend" Alexandria Eng. Journal , Vol. 38, No.3, A135-A148 , May 1999.
- 16- **El-Moghazy I.M, N.A.Kotb, Hegazy A.A and Mahmoud M.A** "Experimental and Theoretical Investigation for Flow and Heat Transfer Through a U-Tube Bend", Bulletin of The Faculty of Engineering, Assiut University, Vol. 26, Part 2., 147-159, July 1999.
- 17- **N.A.Kotb** "Application of Near-Wall Reynolds Stress Model in a Three-Dimensional Developing Flow Inside a Square Duct" Bulletin of Faculty of Engineering, Minia University, Vol. 20, July 2001.