

List of Publications (34 papers)

§ 10 NASA/ADS-indexed papers : [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#).

§ Has a paper classified by **ScienceDirect** in [top 25 hottest article](#) in March 2006.

§ Most recent papers # 33, 34:

- [“Breaking the F5 algorithm: An improved approach”](#), Egyptian Computer Science Journal, January 2007.
- “An Empirical Study of the Use of Extreme Programming in Software Engineering Education”, accepted for publication in Engineering Research Journal, Faculty of Engineering, Menoufiya University, January 2008.

1. [Assassa, G.](#); [Gay, B.](#), "An interaction model for predicting detached turbulent flows", Academie des Sciences (Paris), Comptes Rendus, Serie B - Sciences Physiques, vol. 281, no. 5-8, Aug. 4-25, 1975, pp. 97-100. In French. [NASA ADS Link](#)

2. [Gay, B.](#); [Assassa, G.](#), "Analysis of the singularity near the separation point by an integral method", Academie des Sciences (Paris), Comptes Rendus, Serie B - Sciences Physiques, vol. 284, no. 22, June 13, 1977, pp. 483-486. In French. [NASA ADS Link](#)

3. [Assassa, G.](#); [Gay, B.](#), "Finite element solution of the von Mises equation", Academie des Sciences (Paris), Comptes Rendus, Serie B - Sciences Physiques, vol. 284, no. 24, June 27, 1977, pp. 543-546. In French. [NASA ADS Link](#)

4. [Assassa, G. M.](#); [Gay, B.](#), "Finite element solution of laminar boundary layers with suction or blowing and longitudinal pressure gradient", Journal de Mecanique Appliquee, vol. 1, no. 4, 1977, pp. 357-376. In French. [NASA ADS Link](#)

5. [Assassa, G. M.](#); [Brauner, C. M.](#); [Gay, B.](#), "A new approach to the boundary layer equations - Optimal control of the Van Mises equation by wall suction and numerical solution using finite difference and finite element techniques", Institution of Engineers, Australian Hydraulics and Fluid Mechanics Conference, 6th, Adelaide, Australia, Dec. 5-9, 1977, Paper. 5 p. [NASA ADS Link](#)

6. [Assassa, G. M.](#); [Gay, B.](#), "Numerical prediction of turbulent flows near the separation point", *Entropie*, vol. 14, May-June 1978, pp. 29-38. In French. [NASA ADS Link](#)

Research supported by the Delegation Generale a la Recherche Scientifique et Technique (DGRST).

7. [Assassa, G. M.](#); [Papailiou, K. D.](#), "An integral method for calculating turbulent boundary layer with separation", *ASME, Transactions, Journal of Fluids Engineering*, vol. 101, Mar. 1979, pp. 110-116. [NASA ADS Link](#)

Research supported by the Societe Nationale d'Etude et de Construction de Moteurs d'Aviation (SNECMA).

8. [Gay, B.](#); [Assassa, G. M.](#) "Allowance for the separated zone in the calculation of an incompressible turbulent boundary layer", *Association Aeronautique et Astronautique de France, Colloque d'Aerodynamique Appliquee*, 16th, Lille, France, Nov. 13-15, 1979, 92 p. *In French.* [NASA ADS Link](#)

9. [Gay, B.](#); [Assassa, G. M.](#), "Sheared zone considerations in incompressible turbulent boundary layer calculations", *Association Aeronautique et Astronautique de France, Colloque d'Aerodynamique Appliquee*, 16th, Lille, France, Nov. 13-15, 1979, In French. [NASA ADS Link](#)

10. [Anceaux, P.](#); [Assassa, G.](#); [Gay, B.](#), "Optimization of the external velocity of a turbulent boundary layer by an integral method", In: *Numerical methods for engineering; Proceedings of the Second International Congress, Paris, France, December 1-5, 1980. Volume 2. (A82-18226 06-39)* Paris, Dunod, 1980, pp. 845-854. In French. [NASA ADS Link](#)

11. El-Dessouky H.T.A., Assassa G.M.R. , "[Computer code for optimizing MSF desalination plant](#)", *Desalination, Florence*, vol. 45, 1983, pp. 111-112.

12. Assassa G.M.R. , El-Dessouky H.T.A "[Dynamic stability of MSF desalination plants](#)", *Desalination, Florence*, vol. 45, 1983, p. 133.

13. El-Dessouky H.T.A., Assassa G.M.R. , "[Computer simulation of the horizontal falling film desalination plant](#)", *Desalination, Bermuda*, vol, 55, 1985, pp.119-138.

14. El-Swify M.E., Assassa G.M., " Mixing process and performance prediction of a steam ejector in jet", 1989.

15. Abdel-Aal HK, Al-Zakri AS, El-Sarha ME, El-Swify ME, Assassa G.M., "Other options of mass and energy input for steam jet refrigeration systems", J. Chem Engng, vol. 45, 1990, pp. 99–110.
16. S.S. Ayad, E.A. Abdel Hadi, G.M. Assassa, R.I. El-Ghanam, "[Finite element model for buoyancy-driven cavity flow](#)", Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, vol. 39, no. 5, Oct. 1992, pp. 993-1008.
17. G.M. Assassa, K. Ahmad, "The internet and electronic library systems", Symposium on New Technologies in Libraries, Cairo University, Dec. 1996.
18. G.M. Assassa, "The internet: An introduction", Symposium on the Internet in Education and Research, Proceedings of the 22nd Conference for Statistics, Computer Science, May 3-10, 1997, pp. 1-43.
19. F.H. Sanad, G.M. Assassa, "Computer applications in design of machines", Egyptian Computer Science Journal, vol. 22, no. 1, January 2000, pp. 1-15.
20. E.S. Mettawee, G.M. Assassa, "Enhancing the thermal conductivity of latent heat storage system", Proceedings of the 7th International Conference on Energy and Environment, Cairo, Egypt, 2000, pp. 331-340.
21. E.S. Mettawee, G.M. Assassa, "Study of a compact solar collector", Proceedings of Symposium on Energy Engineering for the 21st Century, Hong Kong, 2000, pp. 766-773.
22. O.E. Abdellatif, R.I. El-Ghanam, G.M. Assassa, M. Ali, "Study of the effect of longitudinal oscillations on free convection from a heated vertical plate", Proceedings of Al-Azhar Engineering 6th International Conference, AEIC, Vol. 7, Sep. 1-4, 2000, pp. 319-338.
23. R.A. Khalil, K. M. El-Shazly, G.M. Assassa, "Heat transfer and fluid flow characteristics of forced convection through a packed pipe", 11th International Mechanical Power Engineering Conference (IMPEC-11), Cairo, pp. H186-H200, Feb. 5-7, 2000.
24. R.A. Khalil, K. M. El-Shazly, G.M. Assassa, "Investigation of forced convection in a packed pipe with a porous medium", Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, vol. 47, no. 2, April 2000, pp. 269-285.
25. M.T. Badawy, M.F. Abd-Raboo, G.M. Assassa, S.A. Ibrahim, "Investigation of the performance of diffuser augmented wind turbine", Proceedings of the 7th International Conference on Energy and Environment, Cairo, Egypt, 2000, pp. 463- 472.

26. Ghazy Assassa, Hatim Aboalsamh,, AbdulRahman AlDekheel, "[Automated software testing in educational environment: A design of testing framework for extreme programming](#)", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, Saudi Arabia, 2006, pp. 142-149.

27. Hind AlHakami, Ghazy Assassa, Hatim Aboalsamh, "Component-based software engineering", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, Saudi Arabia, 2006.

28. Ghazy Assassa, Hatim Aboalsamh, Amel Al Hussan, "[Software cost estimation: A tool for object oriented console applications](#)", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, Saudi Arabia, 2006, pp. 276-284.

29. Ghazy Assassa, Hassan Mathkour, Hmood Al Dossari, "[Extreme programming: A case study in software engineering courses](#)", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, Saudi Arabia, 2006, pp. 233-240.

30. Batool Al-Sadoon, Hassan Mathkour, Ghazy Assassa, "[On the Development of Steganographic Tools](#)", Proceedings of the 1st National Information Technology Symposium, NITS, Riyadh, Saudi Arabia, 2006.

31. E.S. Mettawee, G.M. Assassa, "Experimental study of a compact PCM solar collector", Journal of Energy, vol. 31, no. 14, 2006, pp. 2958-2968.

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33. Hatim Aboalsamh, Sami Dokheekh, Hassan Mathkour, Ghazy Assassa, "[Breaking the F5 algorithm: An improved approach](#)", Egyptian Computer Science Journal, vol. 29, no. 1, January 2007, pp. 1-9.

34. Hassan I. Mathkour, Hatim A. Aboalsamh, Hmood Al Dossari, Ghazy M.R. Assassa, "An Empirical Study of the Use of Extreme Programming in Software Engineering Education", accepted for publication in Engineering Research Journal, Faculty of Engineering, Menoufiya University, Jan. 2008.