

Assiut University

Faculty of Eng. - Civil Dept.

Dr/Hesham Mohamed Ahmed Diab

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Curriculum Vitae

Prof. Dr. Hesham Mohamed Ahmed Diab

- **Professor, Civil Engineering Department**
Faculty of Engineering, Assiut University
- **Chairman of Middle East Engineering consultancy Office**

Name: Hesham Mohamed Ahmed Diab

Date of birth: 4/6/1969 ad

Place of birth: Sohag

Marital status: married (3 daughters and a son)

Gender: male

Nationality: Egyptian

Conscription position: achieved the military service

Position: Faculty member, department of civil engineering - Assiut University

Foreign languages: English and German.

Place of residence: Ebrahambia towers - Assiut.

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[Hesham Mohamed Ahmed Diab | Faculty of Engineering \(aun.edu.eg\)](http://scholar.google.com/citations?user=T4W1aO0AAAAJ&hl=en)

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[hl=en](http://scholar.google.com/citations?user=T4W1aO0AAAAJ&hl=en)

[ResearchGate](http://scholar.google.com/citations?user=T4W1aO0AAAAJ&hl=en)



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Syndicates and affiliated parties:

Member of the Syndicate of Engineers - Assiut Branch
from 1992 to date.

Member of the Egyptian Society of Engineers 2012

Member of the Union of Arab Engineers 2012

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Hesham Mohamed Diab is an associate professor at civil engineering department, Assiut University, Egypt. He was born in Sohag, on June 4, 1969. He received his Bachelor of Science and Master of Science from Assiut University, Egypt in 1992 and 1997 respectively. He went on to receive a Doctor of Philosophy in strengthening and repairing reinforced concrete structures from Ibraki University, Japan in 2004. His research interests are in the areas of civil engineering materials and experimental methods, including behavior of reinforced and prestressed concrete, FRP composites, Time-dependent behavior of FRP strengthened structures, structural modeling, bridges, and rehabilitation/strengthening of existing structures.

Dr. Hesham is the author or co-author of over fifty papers in referred journal and international conference proceeding including invited papers and he has h-index 10 and i-index 10 for more than 400 citation. He attended many international conferences in the field of structural engineering in many countries (Japan, USA, China, Dubai, Egypt.....). He is a supervisor of many MSc and PhD students. He was awarded the Academic Excellence prize in the undergraduate stage from the General Syndicate of Engineers in Cairo in 1992 and Best Research prize in science from Assiut University in 2012, the Encouragement Prize from Assiut University in 2015, and the Serving University from Outside from Sohag University in 2019. He is a reviewer of many international journals such as, Composites for Construction (ASCE), Material in Civil Engineering (ASCE), Construction & Building Materials (Elsevier), Structure and Building (ice),.....

Dr. Hesham is the director of the Middle East Engineering Consultants office which participated in many national projects, including Universities, institutes, schools, bridges, buildings, and silos..... etc. He is a design consultant for both concrete and metal constructions at the Engineers Syndicate. He is the head of failing buildings committee in Balina Center and Sohag governorate. He is also an active member of the engineering consulting center at the Faculty of engineering, Assiut University. He is also responsible for engineering consultancy at the Office of Industrial Technology Transfer at Assiut University.

Sites:-

http://www.aun.edu.eg/membercv.php?M_ID=785

<https://scholar.google.com.eg/citations?user=T4WIaO0AAAAJ&hl=en>

<http://meast.net.eg/#>

[Diab, Hesham Mohamed Ahmed - Author details - Scopus](#)

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Prizes and Medals

- Honoring from the Faculty of Engineering, Sohag University, for faculty members who served the university from abroad, 2019
- Assiut University Encouragement Award - in the field of engineering sciences - Assiut University in 2013/2014
- Award for the best research in science - in the field of basic sciences - Assiut University 2011/2012
- Honoring from Assiut Governorate in the field of scientific activity - Flag Day at Assiut University 2012/2013
- Honoring from the Engineers Syndicate in General Cairo for scientific excellence in the bachelor's degree at the Faculty of Engineering in Assiut in 1992. (To obtain distinction with honors - gold medal + material prize)
- Honoring from the Engineers Syndicate in Sohag for scientific excellence in the bachelor's degree at the Faculty of Engineering in Assiut in 1992 (gold medal - certificate of honor)

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Fields of Engineering consultancy

First: position of Consulting Departments

- Director of the Middle East Office for Engineering Consultancy
- Chairman of the Committee on Buildings on the verge of falling down in the center and city of Al-Balina - Sohag Governorate (according to Ministerial Resolution No. 144 and Article 90 of 2007) until 2017
- Chairman of the Failing Buildings Committee - Sharq District - Sohag Governorate (according to Resolution No. 865 of 2011) until 2019
- An active member of the Center for Engineering Studies and Consultations at the Faculty of Engineering - Assiut University - (CV attached)
- An active member of the Center for Development Studies and Services at the Faculty of Engineering - Sohag University - (CV attached) until 2018
- Responsible for engineering consulting at the Industrial Technology Transfer Office at Assiut University - (CV attached) - until 2017
- Consultant for the design of concrete structures (Engineers Association)
- Consultant for the design of metal structures (Engineers Association)

Second: Consultancy Work

I have been designing and participating in the design and supervision of many projects and attached a sample of these projects- :

A: - Projects through the consulting center in the College of Engineering- :

- Preparing structural designs, drawings and measurements for the project of constructing a flyover on the Ibrahimiya Canal at the entrance to the city of Manqabad in Assiut, affiliated to Assiut Governorate.
- Preparing structural designs, drawings and measurements for the project of establishing rest houses for the Assiut National Petroleum Manufacturing Company (ANOPEC) - Assiut
- Preparing structural designs, drawings and measurements for the project to establish the administrative building of the Assiut National Petroleum Corporation (ANOPEC) - Assiut

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- Preparing drawings and measurements for the restoration of the swimming pool and its attached facilities at the Assiut Cement Factory
- Preparation of structural designs, drawings, measurements and permanent supervision of the implementation of the New Sohag Road project in Sohag City, the Kamel Road of the New Sohag City Authority, which consists of seven industrial works:
 - Al-Hamdiya Bridge - a surface bridge with a capacity of 70 tons - Station 900 + 1
 - Canal Youssef culvert - from Station 780 + 2 to Station 825 + 2
 - Youssef Bank (concrete pipes), station 900 + 4
 - Al-Mahamda Bridge - a surface bridge from Station 850 + 5, with a load capacity of 70 tons
 - Culvert of Al Kamel Canal, Station 340 + 7
 - The seventh industrial work: a surface bridge over the Sohag Bank
- Preparing the structural designs and drawings, preparing the assay, and the brochure of conditions and specifications for the construction of the Olympic swimming pool, the stands and the buildings attached to it in the Assiut Sports Stadium in Mubarak City, in the Arbaeen district in Assiut (Ferrair 2010).
- Preparing structural designs and drawings, preparing an assessment and booklet of conditions and specifications for warehouse buildings and workshops in the new city of Tiba (containing warehouses that are structural and a building for administration, workshops for repairing and maintaining car drives in the city, a mosque, as well as metal covers and metal garages) for the benefit of the New Qena City Development Authority The New Urban Communities Authority (August 2011).
- And a brochure of conditions and specifications for the process of constructing the building of the headquarters of the Directorate of Youth and Sports in the city of Al-Balina - Sohag Governorate {January 2012 AD}..... etc.

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B: - Construction works through the Engineering Consultancy and Development Services Center

- Faculty of Engineering - Sohag University- :
- Metal designs for the stands of the College of Commerce (4 main stands, the capacity of one runway is 1500 people)
- Structural designs for the farm of the Faculty of Agriculture - Sohag Engineering (originating from metal frames)
- Project of the Center for Environmental and Marine Studies in the Red Sea - Sohag University
- Reviewing the infrastructure project at the entire Sohag University campus (a committee formed by the President of Assiut University)

A: Construction works through the Technology Transfer Center, Assiut University (previous works facility)

Examination, inspection and determination of the optimal method for treating problems and vibrations in the bases of the crusher for the first production line - Cement Factory in Assiut - CEMEX

- Preparing the technical report on the validity of the structural elements of the warehouse and garage building in the Assiut Cement Factory - CEMEX - and preparing the appropriate treatment for the existing defects
- Preparing the exploratory study for the Jahdam crusher (22 meters below ground level) in the Cement Factory - CEMEX, in order to find out the source of its water, treat the apparent problems, and prepare a report on the method of treatment
- Studying the problems of vibrations resulting from the oils leaked to the bases of the cement mill from the machines and the extent of their impact on the structural safety of the mill and how to reduce the vibrations emanating from them
- Examine and perform technical irrigation and choose the appropriate treatment method for cracks generated in the sweets factory (Hanaa, Assiut)
- Cafeteria, locker rooms and mosque in the administrative building - Cement Factory - Assiut

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Construction works through the Middle East Engineering Consultancy Office

- Planning and design of an upper bridge in New Assiut, with a length of 1000 meters, above the Red Sea Assiut Road - Assiut Governorate.
- Supervising the residential buildings in Sohag Governorate - the project to develop the capitals of the governorates - the Department of Military Engineers
- Establishment of the Higher Institute for Administrative Sciences in Al-Kawthar District. The area of the land on which the project is built is 5000 square meters in Al-Kawthar District - Sohag Governorate (consisting of the administrative building - classrooms and terraces) - Al-Kawthar District - Sohag Governorate
- Zahraa Al-Tijariyin 4 construction project (a residential complex on an area of 33,000 square meters, consisting of 17 residential buildings and an administrative building - Trade Union - New Assiut - Assiut Governorate
- The project of establishing the Higher Institute of Engineering and Technology in Kafr El-Zayat, Tanta (consisting of the administrative building, auditoriums, and classrooms)- Kafr El-Zayat- Tanta
- The construction of the Garhi Mill project in New Minya (consisting of the silos building, the mills building, and the packing building) in New Minya - Minya
- Preparing the study for Mill 5 in Assiut Cement Factory and preparing the optimal method for processing and cementing - Assiut Cement Factory - CEMEX
- Implementation of several residential towers - Sohag and Assiut



Scientific Research Fields:

- Use of hybrid materials in the reinforcement and implementation of concrete structures
- The use of new materials to strengthen reinforced concrete elements under the influence of different loading conditions
- Studying the seismic and dynamic behavior of concrete structures reinforced with polymer panels.
- Studying the behavior of concrete structures and their impact on mechanical oils.
- Teaching and supervision of postgraduate studies, Department of Civil Engineering, Faculty of Engineering, Assiut.

Scientific production: a list of published research

Research published in international journals.

REFEREED ARTICLES IN INTERNATIONAL JOURNALS

1. Yahia M. S. Ali, Tarek Abdelaleem, **Hesham M. Diab** and Mohamed M. M. Rashwan. Effect of silica fume on the behavior of lightweight reinforced concrete beams made from crushed clay bricks. *AI in Civil Engineering* (2023) 2:3
2. Arafa M.A. Ibrahim, **Hesham M. Diab**, Yehia A. Hassanean, Omar A. Farghal, Mustafa M.A. Ismail. Numerical study on the behavior and strength of concrete beam strengthening with fiber reinforced concrete jackets. *Structures* 50 (2023) 1557–1572.
3. **Diab, H.M.** An anchorage technique for flexural strengthening of RC beams using NSM BFRP bars. *International Journal of Advances in Structural and Geotechnical Engineering, (ASGE)*, Vol. 06 (01), pp. 1-13, 2022.
4. Mahmoud, S., Alqarni, A., Saliba, J., Ibrahim, AH., **Diab, H.M.** Influence of floor system on seismic behavior of RC buildings to forward directivity and fling-step in the near-fault region. *Structures* 30, 803-817, 2021
5. **Diab, H.M.**, Khaled, T.A., Rashwan, M.M. Moment redistribution and flexural performance of RC continuous T-beams strengthened with NSM FRP or steel bars. *Structures* 28, 1516-1538, 2020.

6. **Diab, H.M.**, Sayed, A.M. An Anchorage Technique for Shear Strengthening of RC T-Beams Using NSM-BFRP Bars and BFRP Sheet. *International journal of concrete structure and materials* 14, 49, 2020.
7. **Diab, H.M.**, Khaled, T.A., Rashwan, M.M. Experimental investigation of moment redistribution in RC continuous beams with T-cross section considering central loaded support. *International Journal of Civil Engineering and Technology (IJCIET)*, 11(7), 114-130, 2020.
8. Sayed, A., **Diab, H.M.** Modeling of the Axial Load Capacity of RC Columns Strengthened with Steel Jacketing under Preloading Based on FE Simulation. *Modelling and Simulation in Engineering*, 3,1-8, 2019.
9. **Diab, H.M.**, Rashwan, M.M., Hafez, A., Nader, A. Performance of Reinforced Concrete Skewed Slab Bridges According to Egyptian Code. *World Applied Sciences Journal* 37 (1): 79-87, 2019.
10. Rashwan, M.M. , **Diab, H.M.**, Khaled, T.A. Size Effect of R.C Beams Flexurally Strengthened with Different Types of FRP Sheets against Flexural Loads. *International Journal of Science and Research (IJSR)* , 4(8), 2015
11. **Diab H.M**, Faghal O.A “Bond strength and effective bond length of FRP sheets/plates bonded to concrete considering the type of adhesive layer,” **Composite Part B: Engineering, Elsevier**, Vol. 58, 2014, pp. 618-624
12. **Diab, H.M**, Wu, Z.S, and Ahmed E. “Long-Term Deflections of Beams Strengthened by Prestressed and non-Prestressed FRP Sheets” **International Journal of Engineering and Innovative Technology (IJEIT)**,3(2), 2013
13. Faghal O.A and **Diab H.M.**” Prediction of axial compressive strength of RC circular short columns confined with CFRP wrapping sheets.” *Journal of Reinforced Plastics and Composites*, 32(19), 2013.
14. **Diab, M.H.** “ Performance of different types of FRP sheets bonded to concrete using flexible adhesive” *the online Journal of Science and Technology*, Vol. (3), No 2, 2013.
15. **Diab, H.M**, "Compressive strength performance of low- and high-strength concrete soaked in mineral oil," *Construction and Building Materials*, Vol. (33), 2012, 25–31.
16. Wu, Z.S, Kim, Y. J, and **Diab, H.M.**, **Xin, W.** “Recent Development in Long-term performance of FRP Composites and FRP-concrete interface” *Advanced In Structural Engineering*, Vol. 13, No. 5, 2010.



17. **Diab, H.M** Wu, Z.S, and Iwashita, K., “Theoretical Solution for Fatigue Debonding Growth and Fatigue Life Prediction of FRP-Concrete Interface,” *Advanced In Structural Engineering*, Vol. 12, No. 6, 2009.
18. Wu, Z.S, and **Diab, H.M.** “Modelling of time-dependent bonding and debonding in structures externally strengthened with fibre reinforced polymer sheets,” *Int. J. Modelling, Identification and Control*, Vol. 7, No. 2, 2009, 199-208.
19. **Diab, H.M,** Wu, Z.S, and Iwashita, K.,” Short and Long-Term Bond Performance of Prestressed FRP Sheet Anchorages,” *Engineering Structures*, 31 (2009), 1241-1249.
20. **Diab, H.M,** and Wu, Z. “A Linear Viscoelastic Model for Interfacial Long-Term Behavior of FRP–Concrete Interface,” *Composites Part B: Engineering, Composites: part B* 39, 722-730, 2008.
21. **Diab, H.M** and Wu, Z.S., “Nonlinear Constitutive Model for Time-Dependent Behavior of FRP-Concrete Interface,” *Journal of Composite science and Technology*, Vol. (67), 2323-2333, 2007.
22. Wu, Z.S., and **Diab, H.M,**” Constitutive Model for Time-Dependent Behavior of FRP-Concrete Interface,” *Journal of Composites for Construction, ASCE*, Vol. (11), 477-486, 2007.

• الأبحاث المنشورة في مجلات محلية

REFEREED ARTICLES IN NATIONAL JOURNALS

23. **Diab, H.M,** Khaled, T.A, Rashwan, M.M. Flexural Behavior of RC Continuous T-Beams Reinforced with Hybrid CFRP/Steel Bars: Experimental and Numerical Study. *Journal of Engineering Sciences (JES)*, Assiut University, Faculty of Engineering, Volume 49(2): 215–247, 2021.
24. Rashwan, M.M., Hafez, A., **Diab, H.M,** Ali, A.M. Items for improving bond- slip behavior between CFRP sheets / cement base bonding agent and bonding agent/concrete interface. *Journal of Engineering Sciences, JES*, 46(3), 299-316, 2018.
25. Rashwan, M.M. , **Diab, H.M.,** Abd El-Fattah Y.M.S. Improving of lightweight self-curing concrete properties . *Journal of Engineering Sciences, JES*, 44(3), 259-271, 2016.
26. Rashwan, M.M. , **Diab, H.M.,** Gad, A.F. Elevated Temperature Resistance Concrete using Non-Traditional Materials, *Journal of Engineering Sciences JES*, November,



2014

27. Elsayed. A.Z, Rashwan, M.M, **Diab H.M**, Abdallah, A., and Mohamed, A.N., "Effect of fiber types on Flexural Behavior of High Performance Concrete Beams Under Repeated Loads" Journal of Engineering Sciences, Assiut University, Vol. 41 , No.6 , Nov. 2013
28. Abd-Elhafez, A, Mohamed , M. Diab, H.M, and Atia, A. "Shear Behaviour of High Strength Fiber Reinforced Concrete Corbels" Journal of Engineering Sciences, Assiut University, Vol. 40 , No. 4 , July 2012
29. EL-Amin, F.M, Abdel-Khalek, M.F., **Diab, H.M.**, "A Parametric Study on the Behaviour of Box Tunnels due to Static and Seismic Loads." Journal of Engineering Sciences, Assiut University, Vol.33 , No.1 , pp.19-42 , January 2005

• الأبحاث المنشورة في مؤتمرات دولية- ابحاث رئيسية

KEYNOTE PAPERS IN INTERNATIONAL CONFERENCE

30. Wu, Z.S., **Diab, H.M.**, "Modeling of Time-Dependent Bonding and Debonding In Structures Externally Strengthened With Fiber Reinforced Polymer Sheets" International Conference on Durability of Concrete Structures (ICDCS2008), Hangzhou, P.R. China, Nov. 2008.
31. Wu, Z.S, **Diab, H.M**, Said, H.O, and Shahidul-Islam, S.M, "Key Issues In FRP Technologies for Structures Rehabilitation and Sustainability," *Proceeding of the 6Th Alexandria International Conference on Structural and Geotechnical Engineering*, Alexandria, Egypt, April, 2007. (CD Room)

• الأبحاث المنشورة في مؤتمرات دولية

REFEREED ARTICLES IN INTERNATIONAL CONFERENCES

32. **Diab, H.M.** An Anchorage Technique for Flexural Strengthening of RC Beams using NSM BFRP Bars. International Conference on Advances in Structural and Geotechnical Engineering ICASGE'21, Hurghada, Egypt, 2021.
33. Khaled, T.A., **Diab, H.M.**, Rashwan, M.M. Flexural Behavior of RC Continuous T-Beams reinforced with Hybrid CFRP/Steel bars. *The First International Conference on Basalt Fibers and Composites (ICBFC-2019), Nanjing & Hengshui, China. 2019,*
34. Ismail, M.A., Ibrahim A.M, **Diab, H.M.**, Faraghal, O.A, Hassanean, Y. Numerical modeling of structural performance of RC beams strengthened with fiber concrete jackets. *The First International Conference on Basalt Fibers and Composites (ICBFC-*

2019), Nanjing & Hengshui, China. 2019.

35. Hassanean, Y., Assaf, K., **Diab, H.M**, Zakaria, M. Shear Behavior of R.C Beams Strengthened Using NSM Pre-stressed Bars. *International Conference on Advances in Structural and Geotechnical Engineering ICASGE'17, Hurghada, Egypt, March, 2017*
36. Hafez, A., Rashwan, M.M., **Diab, H.M**, Nader, A. Performance of Reinforced concrete skewed T-beam bridges according to Egyptian code. *International Conference on Advances in Structural and Geotechnical Engineering, ICASGE'17, Hurghada, 2017*.
37. **Diab, H.M**. Efficiency of cement based bonding agent for FRP sheets versus epoxy. *International Conference on Advances in Structural and Geotechnical Engineering, ICASGE'15, Hurghada, Egypt, 2015*.
38. Rashwan, M.M., **Diab, H.M.**, Khaled, T.A. Performance of RC Beams Strengthened With Different Prestressed FRP Sheets. *The Eighth Mansoura International Engineering Conference, Mansoura-Sharm Elsheikh, 2015*.
39. Hassanean, Y.A., **Diab, H.M.**, Fahmy, M.F.M., Ismail, M.A., Behavior of Reinforced High-Strength Concrete Short Columns Subjected to High Temperature. *International Conference on Advances in Structural and Geotechnical Engineering, ICASGE'15, Hurghada, 2015*.
40. **Diab, M.H.** "Performance of different types of FRP sheets bonded to concrete using flexible adhesive" international science and technology, ISTE 2012, Dubai, Dec. , 2012.
41. Shi J., Zhu H., Wu Z., and **Diab H.M.** "Strain Rate Effect on the Bond of FRP Laminate-concrete Interface" proceeding of the 6th international Conference on FRP Composites in Civil Engineering (CICE 2012), Rome, Italy, June 2012.
42. **Diab, H.M.** "Basalt FRP as an economical, sustainable and durable alternative for strengthening concrete structures" 7th International engineering conference, Mansoura University, Egypt. (2010)
43. **Diab, H.M and Wu, Z.S**, "Bond Behaviour of Different FRP Sheets" *proceeding of the FRPRCS-9 Sydney, Australia, July 2009*.
44. **Diab, H.M and Wu, Z.S**, "Fatigue Durability of Concrete Externally Strengthened with FRP Sheets," *International Conference on Microstructure related Durability of Cementations Composites*, October 2008.
45. **Diab, H.M.** and Wu, Z.S, "Review of Existing Fatigue Results of Beams Externally Strengthened with FRP Laminates," *Proceeding of the fourth International Conference on FRP Composites in Civil Engineering (CICE 2008)*, Zurich, Switzerland, July, 2008. (CD room)



46. **Diab, H.M.**, Wu, Z.S, Iwashita, K., and Hamaguchi, Y.,” Stiffness Deterioration of FRP-Concrete Interface under Fatigue Loading,” *Proceeding of the 10 the Japan International Sampe Symposium and Exhibition, JISSE-10, Tokyo, 2007.* (CD room)
47. **Diab, H.M.**, Wu, Z.S, and Iwashita, K., “Theoretical Solution for Fatigue Debonding Growth And Fatigue Life Prediction of FRP-Concrete Interface,” *Proceeding of the First Asia-Pacific Conference on FRP in Structures, APFIS 2007, Hong Kong, China, 2007.* (CD Room).
48. **Diab, H.M**, Wu, Z.S, and Iwashita, K., “Experimental and Numerical Investigation of Fatigue Behavior of FRP-Concrete Interface,” *Proceeding of the FRPRCS-8, Greece, 2007,* Available on CD.
49. **Diab, H.M** and Wu, Z.S,” Constitutive Model for Time-Dependent Bonding and Debonding along FRP-Concrete Interface,” *Proceeding of the Third international Conference on FRP Composites in Civil Engineering (CICE 2006), Florida, USA, 2006,* pp. 25-28.
50. Wu, Z.S. and **Diab, H.M**, “Interfacial Constitutive Model for Long Term Behavior of Adhesive Between FRP Sheets and Concrete, ” *Proceeding of the International Symposium on Innovation & Sustainability of Structures in Civil Engineering (SISS), Southeast university, Chin, 2005*

١. تحكيم ابحاث المجلات الدولية

REVIEWER OF THE FOLLOWING INTERNATIONAL JOURNALS

➤ **Journal of Composites for Construction-ASCE**

- Technical Paper: ID: MTENG-224
 - *Limits of shear strengthening with textile reinforced concrete because of the anchorage*
- Technical Paper : ID: CCENG-1584
 - *Mechanical Behavior and Design of FRP Structural Members at High and Low Service Temperatures*
- Technical Paper: ID: CCENG-928
 - *Cohesive Model Based Approach for Fatigue Life Prediction of Reinforced Concrete Structures Strengthened with NSM FRP*



- Technical Paper: ID: CCENG-421R2
 - *The Effect of Warm Temperatures on Externally Bonded FRP Strengthening*
- Technical Paper : ID: CCENG-543
 - *Prestress Losses and Flexural Behavior of Reinforced Concrete Beams Strengthened with Post-tensioned CFRP Sheets*
- Technical Paper: ID: CCENG-421
 - *The Effect of Warm Temperatures on Externally Bonded FRP Strengthening*
- **Journal of Materials in Civil Engineering, ASCE**
 - Technical Paper : ID: MTENG-7045
 - *Characteristics, strength development and microstructure of cement mortar containing oil contaminated sand*
 - Technical Paper: ID: MTENG-224
 - *Limits of shear strengthening with textile reinforced concrete because of the anchorage*
- **Engineering Structures, Elsevier**
 - Technical Paper: ID: ENGSTRUCT-D-15-01057
 - *Creep model for the long-term behavior of cover separation failure of RC beams strengthened with FRP plate under axial loading*
- **Composites Part B: Engineering -Elsevier**
 - Technical Paper: ID: N606
 - *Effect of inflation pressure on the constitutive response of coated woven fabrics used in air beams*
- **Structures Journal, Elsevier**

- Technical Paper: ID: STRUCTURES-D-18-00275
 - *Impact of Curvature Type on the Behavior of Slender Reinforced Concrete Rectangular Column Confined with CFRP Composite*

➤ **Construction & Building Materials, Elsevier**

- Technical Paper: ID: CONBUILDMAT-D-17-06117
 - *Unlocking the benefits of used engine oil as concrete admixture: investigating the properties of fresh and hardened concrete*
- Technical Paper: ID: CONBUILDMAT-D-18-05047
 - *Effects of coarse aggregate volume on CFRP-concrete bond strength and behavior*
- Technical Paper: ID: CONBUILDMAT-D-20-02000
 - *Reduction in cement content of normal strength concrete with used engine oil (UEO) as chemical admixture*

➤ **Journal of Building Engineering, Elsevier**

- Technical Paper: ID: JOBE_2020_506
 - *Effect of liquid rubber modification on the bond behavior of externally bonded FRP laminate-concrete interface under dynamic loading*

➤ **International Journal of Concrete Structures and Materials, Springer**

- Technical Paper: ID: CSTR-D-20-00036
 - *Bond Behavior of Steel Fiber Reinforced Polymer (SRP)-Concrete Joints*

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➤ Structures and Buildings, ICE

- Technical Paper: ID: SB-D-19-00025
 - *Experimental investigation on tensile bond properties of 500MPa steel bars in ECC*
- Technical Paper: ID: STRUCTURES-D-18-00275
 - *Shear strengthening of existing reinforced concrete beams with embedded bars – An overview*
- Technical Paper: ID: SB-D-16-00143
 - *A note on the simplified model for blast-loading simulation*



الأقتباس العلمي

صفحة الأقتباس علي المحرك جوجل:

<http://scholar.google.com/citations?user=T4WIaO0AAAAJ&hl=en>

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Hesham Diab

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strengthening of concrete s... concrete bridges FRP

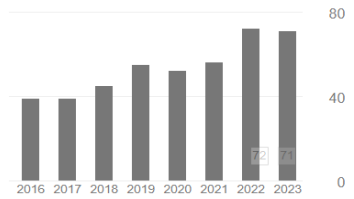
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والله ولي التوفيق !!!

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