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## Dr. Amr Abdelrahman

### PERSONAL

BORN ON NOVEMBER 14, 1964

MARRIED - TWO CHILDREN



### EDUCATION

#### Ph.D

UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA

MAJOR: CIVIL ENGINEERING (STRUCTURAL)

1992-1995

#### M.Sc

AIN SHAMS UNIVERSITY, CAIRO, EGYPT

MAJOR: CIVIL ENGINEERING (STRUCTURAL)

1986-1989

#### B.Sc

AIN SHAMS UNIVERSITY, CAIRO, EGYPT

MAJOR: CIVIL ENGINEERING (STRUCTURAL) (HONORS)

1981-1986

### EMPLOYMENT

#### ACADEMIC

##### PROFESSOR OF CONCRETE STRUCTURES

AIN SHAMS UNIVERSITY, FACULTY OF ENGINEERING,  
STRUCTURAL ENGINEERING DEPARTMENT, CAIRO, EGYPT

2006- PRESENT

##### CHAIRMAN OF STRUCTURAL ENGINEERING DEPARTMENT,

AIN SHAMS UNIVERSITY, FACULTY OF ENGINEERING, CAIRO, EGYPT

2014-2020

##### ASSOCIATE PROFESSOR

AIN SHAMS UNIVERSITY, FACULTY OF ENGINEERING,  
STRUCTURAL ENGINEERING DEPARTMENT, CAIRO, EGYPT

1998-2006

##### NSERC Post-DOCTORAL FELLOW

THE CANADIAN NETWORK OF CENTRES OF EXCELLENCE ON  
INTELLIGENT SENSING FOR INNOVATIVE STRUCTURES (ISIS CANADA),  
UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA.

1996-1998

##### TEACHING AND RESEARCH ASSISTANT

UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA.

1992-1995

##### ASSISTANT LECTURER AND TEACHING ASSISTANT

AIN SHAMS UNIVERSITY, CAIRO, EGYPT.

1986-1991

## MEMBER OF

- EGYPTIAN CODE FOR DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES, **(MEMBER OF THE STANDING COMMITTEE)**.
- EGYPTIAN CODE FOR DESIGN AND CONSTRUCTION OF CONCRETE STRUCTURES WITH FIBER REINFORCED POLYMERS, **(VICE PRESIDENT OF THE STANDING CODE COMMITTEE)**.
- EGYPTIAN CODE FOR DESIGN AND CONSTRUCTION OF BRIDGES, **(MEMBER OF THE STANDING COMMITTEE)**.
- ARAB CODE FOR DESIGN AND CONSTRUCTION OF BRIDGES, **(MEMBER OF THE STANDING COMMITTEE)**.
- EGYPTIAN SOCIETY OF ENGINEERS, ESE, **(GENERAL SECRETARY OF THE ESE/CIVIL)**
- SUPREME ENGINEERING CONSULTING COMMITTEE, EGYPTIAN ENGINEERING SYNDICATE, **(FORMER MEMBER OF THE COMMITTEE)**.
- COMMITTEE OF THE MAINTENANCE, REPAIR AND REHABILITATION OF HERITAGE BUILDINGS, URBAN HARMONY ASSOCIATION, **(MEMBER OF THE COMMITTEE)**.
- COMMITTEE OF THE REPAIR AND STRENGTHENING OF CONCRETE STRUCTURES, **(MEMBER OF THE COMMITTEE)**.
- COMMITTEE OF THE MAINTENANCE OF GENERAL BUILDINGS, **(MEMBER OF THE COMMITTEE)**.
- INTERNATIONAL ASSOCIATION FOR BRIDGES AND STRUCTURAL ENGINEERS **(IABSE)**, EX-MEMBER
- AMERICAN CONCRETE INSTITUTE **(ACI)**, (EX-MEMBER)
- **ACI COMMITTEE 440: FRP REINFORCEMENT** (FORMER ASSOCIATE MEMBER)
- CANADIAN SOCIETY FOR CIVIL ENGINEERING **(CSCE)**, (EX-MEMBER)
- ADVANCED COMPOSITE MATERIALS IN BRIDGES AND STRUCTURES NETWORK (EX-**ACMBS**), (FORMER MEMBER)
- REVIEWER FOR THE **AMERICAN SOCIETY OF CIVIL ENGINEERS, (ASCE) JOURNAL OF COMPOSITES FOR CONSTRUCTION**
- REVIEWER FOR **ACI STRUCTURAL JOURNAL**.
- REVIEWER OF THE JOURNAL OF HOUSING AND BUILDING NATIONAL RESEARCH **CENTER, HBRC JOURNAL**.
- REVIEWER OF THE **CAIRO UNIVERSITY JOURNAL**.

## LINKS TO ACADEMIC WEB PAGES

- [Scopus Author ID: 56624177800](#)
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- <https://scholar.google.com/citations?user=gTpDqmsAAAAJ&hl=en&oi=ao>
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## **Academic**

### **BOOK PUBLICATIONS**

- \* **EDITOR** OF THE PROCEEDING OF THE 15<sup>TH</sup> INTERNATIONAL CONFERENCE ON STRUCTURAL AND GEO-TECHNICAL ENGINEERING (ICSGE 15) DECEMBER 2018.
- \* **EDITOR** OF THE PROCEEDING OF THE 14<sup>TH</sup> INTERNATIONAL CONFERENCE ON STRUCTURAL AND GEO-TECHNICAL ENGINEERING (ICSGE 14) DECEMBER 2015.
- \* **EDITOR** OF THE PROCEEDING OF THE INTERNATIONAL WORKSHOP ON ADVANCED COMPOSITES FOR ENGINEERING APPLICATIONS (ACEA) 2014 - SUSTAINABLE STRUCTURES AND SMART MATERIALS", MAY 2014.
- \* **EDITOR** OF THE PROCEEDING OF THE FIFTH MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, MAY 2008.
- \* **EDITOR** OF THE PROCEEDING OF THE FOURTH MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, MAY 2005.
- \* **EDITOR** OF THE THIRD MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, DECEMBER 2002.

### **CONFERENCE PARTICIPATION**

- \* **CHAIRMAN** OF THE 15<sup>TH</sup> INTERNATIONAL CONFERENCE ON STRUCTURAL AND GEO-TECHNICAL ENGINEERING, **ADVANCED CONSTRUCTION TECHNIQUES**, (ICSGE 15), STRUCTURAL ENGINEERING DEPARTMENT, AIN SHAMS UNIVERSITY, NEW CAIRO CITY, 18-20 DECEMBER 2015.
- \* **CHAIRMAN** OF THE 14<sup>TH</sup> INTERNATIONAL CONFERENCE ON STRUCTURAL AND GEO-TECHNICAL ENGINEERING, **SUSTAINABLE INFRASTRUCTURE: FROM RESEARCH TO PRACTICE**, (ICSGE 14), STRUCTURAL ENGINEERING DEPARTMENT, AIN SHAMS UNIVERSITY, NEW CAIRO CITY, 20-22 DECEMBER 2015.
- \* **GENERAL SECRETARY** OF "THE INTERNATIONAL WORKSHOP ON ADVANCED COMPOSITES FOR ENGINEERING APPLICATIONS (ACEA) 2014 - SUSTAINABLE STRUCTURES AND SMART MATERIALS", THE GERMAN UNIVERSITY IN CAIRO, MAY 5-6, 2014, CAIRO, EGYPT.
- \* **INNOVATIVE METHODOLOGIES & TECHNOLOGIES FOR SUSTAINABLE COMMUNITIES**, JOINT EGYPTIAN GERMAN SCIENTIFIC WORKSHOP, 2<sup>ND</sup> - 5<sup>TH</sup> OF OCTOBER 2012, GERMAN UNIVERSITY IN CAIRO, CAIRO
- \* **MEMBER OF THE ORGANIZING COMMITTEE OF IABSE CONFERENCE**, "GLOBAL THINKING IN STRUCTURAL ENGINEERING", CAIRO, EGYPT, 7-9 MAY 2012.
- \* **MEMBER OF THE SCIENTIFIC COMMITTEE**, FIRST MIDDLE EAST CONFERENCE ON SMART MONITORING: ASSESSMENT AND REHABILITATION OF CIVIL STRUCTURES, 8-10 FEB. 2011, DUBAI, UAE.
- \* **MEMBER OF THE SCIENTIFIC COMMITTEES**, THE 5<sup>TH</sup> INTERNATIONAL CONFERENCE IN ADVANCED COMPOSITE MATERIALS FOR BRIDGES AND STRUCTURES, ACMBS-V, WINNIPEG, MANITOBA CANADA, SEPTEMBER 2008
- \* **MEMBER OF THE ORGANIZING AND SCIENTIFIC COMMITTEES**, "THE FIFTH MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, HURGHADA, EGYPT, 23-25 MAY 2008.
- \* **TWELFTH INTERNATIONAL COLLOQUIUM ON STRUCTURAL AND GEOTECHNICAL ENGINEERING**, AIN SHAMS UNIVERSITY, CAIRO, 10-12 DEC. 2007
- \* **INTERNATIONAL WORKSHOP ON INNOVATIONS IN MATERIALS AND DESIGN OF CIVIL**

- INFRASTRUCTURE, HOUSING AND BUILDING NATIONAL RESEARCH CENTRE, 28-29 DECEMBER 2005.
- \* ELEVENTH INTERNATIONAL COLLOQUIUM ON STRUCTURAL AND GEOTECHNICAL ENGINEERING, AIN SHAMS UNIVERSITY, CAIRO, 17-19 MAY 2005
  - \* **MEMBER OF THE ORGANIZING AND SCIENTIFIC COMMITTEES**, "THE FOURTH MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, ALEXANDRIA, EGYPT, 20-23 MAY 2005.
  - \* THE SECOND WORKSHOP ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, HBRC, 17-18 DECEMBER 2003.
  - \* THE INTERNATIONAL CONFERENCE FOR COMPOSITES IN CONSTRUCTION, UNIVERSITY OF CALABRIA, ITALY, 16-19 SEPT. 2003.
  - \* **MEMBER OF THE ORGANIZING AND SCIENTIFIC COMMITTEES**, "THE THIRD MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, ASWAN, EGYPT, 17-20 DECEMBER 2002.
  - \* **MEMBER OF THE SCIENTIFIC COMMITTEE**, "III MIDDLE EAST REGIONAL CONFERENCE ON CIVIL ENGINEERING TECHNOLOGY", CAIRO, APRIL 2002.
  - \* **MEMBER OF THE ORGANIZING COMMITTEE**, "THE FIRST MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, SHARM EL-SHIKH, EGYPT, APRIL 1996.
  - \* FIFTH INTERNATIONAL SYMPOSIUM ON FIBER REINFORCED POLYMERS (FRP) FOR REINFORCED CONCRETE STRUCTURES, CAMBRIDGE, UK, JULY 2001.
  - \* BRIDGE ENGINEERING CONFERENCE 2000, SHARM EL-SHEIKH, EGYPT, MARCH 26 TO 30, 2000.
  - \* FOURTH INTERNATIONAL SYMPOSIUM ON FIBER REINFORCED POLYMERS (FRP) FOR REINFORCED CONCRETE STRUCTURES, BALTIMORE, MARYLAND, U.S.A., OCTOBER 31 TO NOVEMBER 4, 1999.
  - \* ACI CONVENTION, BALTIMORE, U.S.A., OCTOBER 1999.
  - \* THE SECOND MIDDLE EAST SYMPOSIUM ON STRUCTURAL COMPOSITES FOR INFRASTRUCTURE APPLICATIONS, HURGHADA, EGYPT, APRIL 1999.
  - \* THE ARAB CONFERENCE ON REPAIR AND REHABILITATION OF STRUCTURES, SEPTEMBER 16 TO 18, 1998, CAIRO, EGYPT.
  - \* THIRD INTERNATIONAL SYMPOSIUM ON NON-METALLIC (FRP) REINFORCEMENT FOR CONCRETE STRUCTURES, OCTOBER 14 TO 16, 1997, SAPPORO, JAPAN.
  - \* ADVANCED COMPOSITE MATERIALS IN BRIDGES AND STRUCTURES, 2<sup>ND</sup> INTERNATIONAL CONFERENCE, MONTREAL, QUEBEC, CANADA, 11-14 AUGUST 1996.
  - \* ACI CONVENTION, SEATTLE, U.S.A., MARCH 1996.
  - \* THE SECOND INTERNATIONAL RILEM SYMPOSIUM ON NON-METALLIC REINFORCEMENT FOR CONCRETE STRUCTURES (FRPRCS-2), UNIVERSITEIT GENT, BELGIUM, AUGUST 1995.
  - \* CANADIAN SOCIETY FOR CIVIL ENGINEERING ANNUAL CONFERENCE, OTTAWA, ONTARIO, CANADA, JUNE 1995.
  - \* ACI CONVENTION, VANCOUVER, CANADA, MARCH 1993.
  - \* CANADIAN SOCIETY OF CIVIL ENGINEERING, ANNUAL CONFERENCE, QUEBEC, CANADA, 27-29 MAY 1992.
  - \* INTERNATIONAL CONFERENCE IN STRUCTURAL ENGINEERING, CAIRO, EGYPT, JAN. 1991.

## ACADEMIC AWARDS

- |             |   |
|-------------|---|
| <b>2022</b> | AIN SHAMS UNIVERSITY APPRECIATION AWARD             |
| <b>2007</b> | THE MARQUIS "WHO IS WHO" IN SCIENCE AND ENGINEERING |

<b>2004</b>	RESEARCH GRANT ON "USE OF COMPOSITE IN CIVIL ENGINEERING", AIN SHAMS UNIVERSITY
<b>2003</b>	FIRST PRIZE, NASR ROAD BRIDGE, MINISTRY OF HOUSING, UTILITIES AND URBAN COMMUNITIES
<b>1996-1998</b>	NSERC POSTDOCTORAL FELLOWSHIP, UNIVERSITY OF MANITOBA, CANADA
<b>1997</b>	CCRB - COMPETITION FOR INNOVATION IN CONSTRUCTION, THE MANITOBA CHAPTER OF THE CANADIAN CONSTRUCTION RESEARCH BOARD IN COLLABORATION WITH THE NATIONAL RESEARCH COUNCIL OF CANADA
<b>1993-1995</b>	UNIVERSITY OF MANITOBA FELLOWSHIP, UNIVERSITY OF MANITOBA, CANADA
<b>1995</b>	CCRB - COMPETITION FOR INNOVATION IN CONSTRUCTION, THE MANITOBA CHAPTER OF THE CANADIAN CONSTRUCTION RESEARCH BOARD IN COLLABORATION WITH THE NATIONAL RESEARCH COUNCIL OF CANADA
<b>1994</b>	FIRST PRIZE OF THE GRADUATE STUDENT PAPERS CONTEST, CSCE CONFERENCE, CANADA
<b>1993</b>	ALFERD REA TUCKER MEMORIAL SCHOLARSHIP, UNIVERSITY OF MANITOBA, CANADA
<b>1986</b>	EGYPTIAN ENGINEERING SYNDICATE AWARD, CAIRO, EGYPT

## PUBLICATIONS

### JOURNAL PAPERS

1. "STRESS – STRAIN BEHAVIOR OF RUBBERIZED CONCRETE UNDER COMPRESSIVE AND FLEXURAL STRESSES", MOHAMED WALID, AMR ABDELRAHMAN, MOHAMED KOHAIL, AND AYMAN MOUSTAFA, JOURNAL OF BUILDING ENGINEERING, ELSEVIER, SCIENCE DIRECT, AUGUST 2022.
2. "EFFECT OF BLAST LOADING ON SEISMICALLY DETAILED RC COLUMNS AND BUILDINGS", FOUAD, M., FAYED, M.N., HAMDY, G.A., ABDELRAHMAN, A., CIVIL ENGINEERING JOURNAL, 2021, 7(8), PP. 1406–1425.
3. "NUMERICAL VERIFICATION FOR CONCRETE BEAMS REINFORCED WITH CFRP SUBJECTED TO PURE TORSION", MOHAMED ELKHESHEN, REHAM ELTAHAWY, MARWAN SHEDIDB, AND AMR ABDELRAHMAN, ENGINEERING STRUCTURES, VOLUME 268, 1 OCTOBER 2022.
4. "EXPLORING THE EFFECT OF IN-PLANE TENSILE FORCES ON THE TWO-WAY SHEAR STRENGTH: REVIEW, COMPARATIVE STUDY AND FUTURE WORKS" AHMED DEIFALLA, ESLAM MOUSA, DINA YEHIA AND AMR ABDELRAHMAN, FUTURE ENGINEERING JOURNAL: VOL. 2 : ISS.1, ARTICLE 5, JANUARY 2021.
5. "EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE BEHAVIOR OF LWFC L-GIRDERS UNDER COMBINED TORSION", A.DEIFALLA, A.AWAD, H. SELEEM, AND A. ABDELRAHMAN, STRUCTURES, ELSEVIER, VOLUME 26, AUGUST 2020, PAGES 362-377.
6. "SIMPLIFIED MECHANICS-BASED APPROACH FOR MODELING OF FLEXURALLY DOMINATED REINFORCED MASONRY STRUCTURAL WALL SYSTEMS SUBJECTED TO LATERAL LOAD", HUSSEIN OKAIL, AMR ABDELRAHMAN, MARAWN SHEDID, AHMAD ABDELWAHAB AND HASSAN BEDEIR, ENGINEERING STRUCTURES, ELSEVIER, 2020.
7. ABDELLATIF, A., SHEDID, M., OKAIL, H., AND ABDELRAHMAN, A., "NUMERICAL MODELLING OF REINFORCED MASONRY WALLS UNDER LATERAL LOADING AT THE COMPONENT LEVEL RESPONSE AS OPPOSED TO SYSTEM LEVEL RESPONSE" AIN SHAMS ENGINEERING JOURNAL, 2019.
8. "TESTS OF SLAB-COLUMN CONNECTIONS SUBJECTED TO REVERSED CYCLIC MOMENTS IN ADDITION TO DIFFERENT LEVELS OF GRAVITY SHEAR LOAD", AMR ABDELKHALIK, TAMER

- ELAFANDY, AMR ABDELRAHMAN AND ALAA SHERIF, SCIENTIFIC. NET, PUBLISHER IN MATERIALS SCIENCE AND ENGINEERING, PERIODICALS BY TRANS TECH PUBLICATIONS LTD., 2019.
9. "NUMERICAL ANALYSIS FOR PUNCHING SHEAR RESISTANCE OF FLAT SLABS BY SHEAR HEADS", BADAWY M. M, SAAFAN M, ELWAN S.K, ELZEINY S.M, ABDELRAHMAN A.A, IJRET "INTERNATIONAL JOURNAL OF RESEARCH IN ENGINEERING AND TECHNOLOGY", VOLUME 07, ISSUE 07, JULY 2018,
  10. "BEHAVIOR OF LIGHTWEIGHT CONCRETE UNDER UNIAXIAL ECCENTRIC COMPRESSIVE STRESSES" MAGED TAWFIK, SHERIF ELWAN, HOSAM SELEEM AND AMR ABDELRAHMAN, **INTERNATIONAL JOURNAL OF CIVIL ENGINEERING & TECHNOLOGY (IJCIET)**, VOLUME 08, ISSUE 8, (AUG 2017).
  11. "IN-PLANE LATERAL LOAD BEHAVIOUR OF CONFINED MASONRY WALLS RETROFITTED USING CARBON-FIBRE-REINFORCED POLYMERS" ISLAM M. MANTAWY, HUSSEIN O. OKAIL AND AMR A. ABDELRAHMAN, **INT. J. MASONRY RESEARCH AND INNOVATION**, VOL. 2, No. 1, 2017.
  12. "CONCRETE DAMS: THERMAL-STRESS AND CONSTRUCTION STAGE ANALYSIS", EZZELDIN Y. SAYED-AHMED, AMR A. ABDELRAHMAN AND RANA A. EMBABY, **INSTITUTION OF CIVIL ENGINEERS, ICE**, 2017.
  13. "SEISMIC BEHAVIOUR OF HIGH-RISE BUILDINGS WITH TRANSFER FLOORS" A. K. ELAWADY, H. O. OKAIL, A. A. ABDELRAHMAN, AND E.Y. SAYED-AHMED, **ELECTRONIC JOURNAL OF STRUCTURAL ENGINEERING, EJSE**, 14(2) 2014.
  14. "SIMPLIFIED MODEL FOR THE TORSIONAL STRENGTH OF CONCRETE BEAMS WITH GFRP STIRRUPS", DEIFALLA, A., KHALIL, M., AND ABDELRAHMAN, A., **JOURNAL OF COMPOSITES FOR CONSTRUCTION, ASCE**, 2014.
  15. "INTERFACIAL SHEAR BEHAVIOUR OF COMPOSITE FLANGED CONCRETE BEAMS", AWRY M., ELAFANDY T., OKAIL H., AND ABDELRAHMAN A., **HBRC JOURNAL**, 2014, 10, PP206-214.
  16. "REHABILITATION OF COMPOSITE RC FLANGED BEAMS DEFICIENT IN INTERFACIAL SHEAR TRANSFER", M. AWRY, T. ELAFANDY, H. OKAIL, A. ABDELRAHMAN, **JOURNAL OF AL-AZHAR UNIVERSITY ENGINEERING SECTOR**, AL-AZHAR UNIVERSITY, 2014, PP119-132.
  17. "BEHAVIOR OF POST-TENSIONED FIBER CONCRETE BEAMS", EL-SHARKAWY. H., EL-AFANDY. T., EL-GHANDOUR. A. & ABDELRAHMAN. A., **INTERNATIONAL JOURNAL FOR STRUCTURAL AND GEOTECHNICAL ENGINEERING, HOUSING AND BUILDING NATIONAL RESEARCH CENTER (HBRC)**, VOLUME 9, ISSUE 3, DECEMBER 2013, PAGES 216–226.
  18. "INTERFACIAL SHEAR BEHAVIOR OF COMPOSITE FLANGED CONCRETE BEAMS", M. MAHMOUD, T. ELAFANDY, H. OKAIL, A. ABDELRAHMAN, **INTERNATIONAL JOURNAL FOR STRUCTURAL AND GEOTECHNICAL ENGINEERING, HOUSING AND BUILDING NATIONAL RESEARCH CENTER (HBRC)**, 2013.
  19. "TORSIONAL STRENGTHENING OF REINFORCED CONCRETE BEAMS USING CFRP SHEETS", MAHMOUD M. EL-KATEB, AMR A. ABDEL RAHMAN, TAREK K. HASSAN, **JOURNAL OF AL-AZHAR UNIVERSITY ENGINEERING SECTOR**, AL-AZHAR UNIVERSITY, VOLUME 35, No. 2, APRIL 2013
  20. "STRUCTURAL PERFORMANCE OF HIGH RISE BUILDING WITH TRANSFER FLOORS", AMAL ELAWADY, HUSSEIN OKAIL, AMR ABDELRAHMAN, EZZELDIN SAYED AHMED, **JOURNAL OF AL-AZHAR UNIVERSITY ENGINEERING SECTOR**, 2012.
  21. "BEHAVIOR OF PRESTRESSED CONCRETE BEAMS SUBJECTED TO FIRE" ABDELRAHMAN A., NOFEL N., GHALLAB A., EL-AFANDY T., MAHMOUD A., **JOURNAL OF HOUSING AND BUILDING NATIONAL RESEARCH CENTRE**, VOL. 7, No.2, AUGUST 2011, PP.38-55.
  22. "DIFFERENT CFRP STRENGTHENING TECHNIQUES FOR PRESTRESSED HOLLOW CORE RC SLABS: EXPERIMENTAL STUDY AND ANALYTICAL INVESTIGATION", EL-GABBAS, F., EL-GHANDOUR, A., ABDELRAHMAN, A. & EL-DIEB, A., **JOURNAL OF COMPOSITE STRUCTURES**

- JOURNAL, RESTON, ELSEVIER PUBLICATION**, VOL.92, ISSUE 2, JANUARY 2010, PP 401-411.
23. "STRUCTURAL PERFORMANCE OF SELF-COMPACTING LIGHTWEIGHT REINFORCED CONCRETE SLABS", EL-GHANDOUR, A., ZAHER, A., ABDELRAHMAN, A. & SULTAN, R., **JOURNAL OF ENGINEERING AND APPLIED SCIENCE, FACULTY OF ENGINEERING, CAIRO UNIVERSITY**, VOL. 57, ISSUE 6, DECEMBER 2010, PP. 491 - 509.
  24. "MIX PROPORTIONS AND PROPERTIES OF ULTRA HIGH STRENGTH CONCRETE PRODUCED USING LOCAL MATERIALS", S. OKBA, H. BAHNASAWY, A. ELDIEB, A. ABDELRAHMAN, H. EL-KARMOUTY, AND E. KHATTAB, **JOURNAL OF HOUSING AND BUILDING NATIONAL RESEARCH CENTRE**, VOL. 6, NO.3, DECEMBER 2010, PP.9-19.
  25. "BEHAVIOUR OF HIGH STRENGTH REINFORCED CONCRETE COLUMNS UNDER AXIAL AND CYCLIC LATERAL LOADS", S. OKBA, H. BAHNASAWY, A. ELDIEB, A. ABDELRAHMAN, H. EL-KARMOUTY, AND A. BILAL, **JOURNAL OF HOUSING AND BUILDING NATIONAL RESEARCH CENTRE**, VOL. 6, NO.2, AUGUST 2010, PP.71-79.
  26. "EFFECT OF ELEVATED TEMPERATURE ON THE BEHAVIOR OF RC BEAMS STRENGTHENED WITH FRP", S. OKBA, A. ABDELRAHMAN, H. ABDELLATIF, AND S. KHAFAGA, **JOURNAL OF HOUSING AND BUILDING NATIONAL RESEARCH CENTRE**, VOL. 5, NO.2, AUGUST 2009, PP.13-24.
  27. "FLEXURAL BEHAVIOUR AND DESIGN OF SELF-COMPACTING LIGHTWEIGHT RC BEAMS", ESSAWY, A. S., ABDELRAHMAN, A., EL-GHANDOUR, A. A. & OKAIL, H. O., **SCIENTIFIC BULLETIN OF THE FACULTY OF ENGINEERING, AIN SHAMS UNIVERSITY, PART I: ARCHITECTURAL AND CIVIL ENGINEERING**, CAIRO, EGYPT, 31 DECEMBER 2006, VOL. 41, NO. 4, PP. 37 – 60.
  28. "STRENGTHENING PRECAST-PRESTRESSED HOLLOW CORE SLABS TO RESIST NEGATIVE MOMENTS USING CARBON FIBER REINFORCED POLYMER STRIPS: AN EXPERIMENTAL INVESTIGATION AND A CRITICAL REVIEW OF CANADIAN STANDARDS ASSOCIATION S806-02", HOSNY A., SAYED-AHMED E., ABDELRAHMAN A., AND ALHLABY A., **CANADIAN JOURNAL OF CIVIL ENGINEERING**, VOL. 33, PP 955-967, 2006
  29. "PERFORMANCE OF REINFORCED CONCRETE BEAMS STRENGTHENED BY HYBRID FRP LAMINATES", BY A. HOSNY, H. SHAHEEN, A. ABDELRAHMAN, T. EL-AFANDY, **JOURNAL OF CEMENT AND CONCRETE COMPOSITES (CCC) SPECIAL ISSUE "DURABILITY & DUCTILITY OF FRP STRENGTHENED BEAMS, SLABS & COLUMNS"**, ELSEVIER PUBLISHER, SEPTEMBER 2005.
  30. "BEHAVIOUR OF CONCRETE CORBELS STRENGTHENED BY CARBON FRP LAMINATES", BY A. ABDELRAHMAN, SUBMITTED FOR PUBLICATION, **PORT-SAID ENGINEERING RESEARCH JOURNAL, (PSERJ)**, SUEZ CANAL UNIVERSITY, VOL.9, NO.2, 2005.
  31. "COMBINED FLEXURE AND SHEAR STRENGTHENING OF CONCRETE T-BEAMS USING FRP FABRIC", BY A. ABDELRAHMAN, **JOURNAL OF AIN SHAMS UNIVERSITY**, VOL.40, NO.4, DECEMBER 2005.
  32. "USE OF ACM IN REHABILITATION PROJECTS IN EGYPT", BY A. ABDELRAHMAN, M. MOHAMADIEN, S. RIZKALLA, AND G. TADROS, **FIELD APPLICATIONS OF FRP REINFORCEMENT: CASE STUDIES, ACI SP-215**, 2003, PAGES 361-372.
  33. "FIBRE REINFORCED POLYMER REINFORCING BARS FOR BRIDGE DECKS" BY T. HASSAN, A. ABDELRAHMAN, G. TADROS, AND S. RIZKALLA, **CANADIAN JOURNAL OF CIVIL ENGINEERING (CSCE)**, VOL. 27, NO. 5, OCTOBER 2000, PAGES 839-849.
  34. "STRENGTHENING OF RC FLAT SLAB USING CFRP STRIPS", BY A. ABDELRAHMAN, **PORT-SAID ENGINEERING RESEARCH JOURNAL, (PSERJ)**, SUEZ CANAL UNIVERSITY, JUNE 2000.
  35. "ANALYTICAL MODEL OF STEEL-CONCRETE COMPOSITE ELEMENTS USED FOR LARGE STRUCTURES", **PORT-SAID ENGINEERING RESEARCH JOURNAL, (PSERJ)**, SUEZ CANAL UNIVERSITY, APRIL 2000.

36. "DESIGN RECOMMENDATIONS FOR BRIDGE DECK SLABS REINFORCED BY FRP", BY TAREK HASSAN, SAMI RIZKALLA, AMR ABDELRAHMAN AND GAMIL TADROS, **FOURTH INTERNATIONAL SYMPOSIUM ON FIBER REINFORCED POLYMERS (FRP) FOR REINFORCED CONCRETE STRUCTURES, ACI SP 188-29**, BALTIMORE, MARYLAND, U.S.A., OCTOBER 31 TO NOVEMBER 4, 1999, PP. 313-323.
37. "DEFLECTION CONTROL OF CONCRETE BEAMS PRETENSIONED BY CFRP BARS", BY A. ABDELRAHMAN, AND S. RIZKALLA, **ASCE JOURNAL OF COMPOSITES FOR CONSTRUCTION**, VOL. 3, NO. 2, MAY 1999, PP. 55-62.
38. "FRP FOR THE 21ST CENTURY", BY AMR ABDELRAHMAN, **JOURNAL OF ARAB ROADS ASSOCIATION**, VOL.47, NO.1, JANUARY 1999, PP. 33-46.
39. "THE NEW GENERATION", BY S. RIZKALLA, E. SHEHATA, A. ABDELRAHMAN AND G. TADROS, **ACI CONCRETE INTERNATIONAL**, VOL. 20, NO. 6, JUNE 1998, PP. 35-38.
40. "SERVICEABILITY OF CONCRETE BEAMS PRESTRESSED BY CARBON FIBRE REINFORCED PLASTIC BARS", BY A. ABDELRAHAM, AND S. RIZKALLA, **ACI STRUCTURAL JOURNAL**, JULY - AUGUST 1997, VOL. 94, NO. 4, PP.447-457.
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## GRADUATE STUDENTS

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6. GOWILY TAREK, PHD, AIN SHAMS UNIVERSITY, 2015.
7. ELTAHAWY RIHAM, PHD, AIN SHAMS UNIVERSITY, 2014.
8. ABDELAZIM HUSAM, PHD, "BEHAVIOR OF POST-TENSIONED FIBER CONCRETE BEAMS", AIN SHAMS UNIVERSITY, 2014
9. AWRY MOAATAZ, PHD, "INTERFACIAL SHEAR BEHAVIOR OF COMPOSITE FLANGED CONCRETE BEAMS ", AIN SHAMS UNIVERSITY, 2014
10. MOHAMED OMNYA, PHD, "BEHAVIOR OF FULLY AND PARTIALLY PRESTRESSED CONCRETE BEAMS WITH DIFFERENT COMPRESSIVE CONCRETE STRENGTH", AIN SHAMS UNIVERSITY, 2013
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25. SAIFY MOHAMED, MSc, AIN SHAMS UNIVERSITY, 2016
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32. ELHASHIMY TAREK, MSc, AIN SHAMS UNIVERSITY, 2014
33. AWAD MOHAMED, MSc, AIN SHAMS UNIVERSITY, 2014
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