



1) Personal

Name: **HASSAN**
 Family Name: **ABYN**
 Date of Birth: 1966
 Place of Birth: Maragheh, IRAN
 Nationality: Iranian

Affiliation: Engineering Faculty, Persian Gulf University, 75169 Bushehr, Iran

2) Education

• Primary and High School

1974-1979 Elementary School, Ministry of Education and Culture, Iran, (First class)
 1979-1982 Second Elementary, Ministry of Education and Culture, Iran, (First class)
 1982-1987 High School, Ministry of Education and Culture, Iran, (First class)

• Undergraduate Study

1987-1992 **BSc.**, Naval Architecture Department, Polytechnic University, Tehran , Iran.

• Postgraduate Study

1993-1996 **MSc.**, Naval Architecture Department, Faculty of Mechanical Engineering, Sharif University of Technology, Tehran, Iran.
MSc. Thesis: Design of Floating Breakwaters.

2008-2014 **PhD student**, Marine Technology Department, Faculty of Mechanical Engineering, University Technology Malaysia
PhD Thesis: Hydrodynamic Interaction and Relative Motions of Floating Structures in Waves.

3) Industrial Experience

- Naval architect and design engineer for Arvandan Shipbuilding Company that produced aluminum and steel boat, Tehran, Iran (1994 - 1995)
- Naval architect and design engineer for Moshaverin-Sahel marine consulting firm in onshore, Tehran, Iran (1996 – 1998)
- Licensed employment base of mechanical installation systems (2003- Present).

4) Academic Experience

4-a) Education

Jan. 1998- present Assistant professor in Government **Persian Gulf University**, Boushehr, Iran www.pgu.ac.ir
 Jan. 1998-present Associate Advisor of Graduate Thesis in Naval Architecture

4-b) Teaching Duties

At the undergraduate level

- Static
- Dynamics
- Strength of Materials
- Computer programming
- Engineering Drawing
- Fluid Mechanics
- Ship Technology
- Ship Hydrostatic
- Ship Hydrodynamic
- Supervision of final year undergraduate students' project
- Auto Mechanics Workshop

At the postgraduate level

- Water wave mechanics
- Floating platforms

4-c) Administrative

Member of various Committees & NGO's:

- 1998- Present Iranian Association of Naval Architecture & Marine Engineering (IRANAME)
 1998- Present Naval Architecture Department Committee in Persian Gulf University
 2002- 2006 Head of Naval Architecture Department in Persian Gulf University
 2015 - Present
 2003- Present Engineering Organization of Building (Busher, Iran)
 2003-2006 Representative for Lecturers of Persian Gulf University
 2005-2008 COE for Staff Houses Cooperative of Persian Gulf University
 2006-2008 Education Committee Member in Bushehr Engineering Organization of Building
 2014- Present Associate editor at The Journal of Ocean, Mechanical and Aerospace -science and engineering- (JOMase) with ISSN: 2354-7065 <http://isomase.org/JOMase3.php>

5) Publications

5-a) Books

- Course Notes on Hydrodynamics for Naval Architectures, Persian Gulf University.

5-b) Scientific Papers

In Persian:

۱. عباس دشتی منش، حسن آبین، چهارمین همایش ملی شناورهای تندرو، "شبه سازی سه بعدی جریان در پاشنه تراشوم بدنه پرواز با استفاده از روش ذرات هموار هیدرودینامیکی"، ۵ خرداد ۱۳۹۴، تهران
۲. امین محمودی، جیبیب حکیم زاده، محمد جواد کتابداری، حسن آبین، ششمین همایش بین المللی صنایع فارساحل، "شبه سازی عددی پیشروی موج بر روی موج شکن مستغرق نفوذناپذیر به روش هیدرودینامیک ذرات هموار"، اردیبهشت ۱۳۹۴، دانشگاه صنعتی شریف، تهران
۳. امین محمودی، جیبیب حکیم زاده، محمد جواد کتابداری، حسن آبین، چهارمین همایش ملی توسعه دانایی محور، "شبه سازی عددی شکست موج بر روی دیوار ساحلی به روش هیدرودینامیک ذرات هموار"، اردیبهشت ۱۳۹۴، بوشهر
۴. حسن آبین، عباس دشتی منش، امین محمودی، چهارمین همایش ملی توسعه دانایی محور، "شناورهای بادبانی"، اردیبهشت ۱۳۹۴، بوشهر

۵. سعید جامعی، حسن آبین، هشتمین همایش ملی صنایع دریایی ایران، "پلی استرهای تقویت شده بعنوان ماده سازه‌ای در ساخت شناور" آبان ۱۳۸۵، بوشهر
http://www.civilica.com/Paper-NSMI08-NSMI08_067.html
۶. سعید جامعی، حسن آبین، پنجمین همایش ملی صنایع دریایی ایران، "مطالعه پارامتری بر روی به آب اندازی جکت‌ها" دی ۱۳۸۲، تهران
http://www.civilica.com/Paper-NSMI05-NSMI05_028.html
۷. حسن آبین، پنجمین کنفرانس بین المللی سواحل، بنادر و سازه های دریایی "تحلیل رفتار دینامیکی اجسام شناور با استفاده از روش المان مرزی" ۲۲ مهر ۱۳۸۱ رامسر
http://www.civilica.com/EnPaper-ICOPMAS05-ICOPMAS05_081.html
۸. حسن آبین، سومین کنفرانس بین المللی سواحل، بنادر و سازه های دریایی، "موج شکن های شناور" ۲۴ آذر ۱۳۷۷ تهران

In English:

Book Chapter:

1. K.Jaswar, C.L. Siow, **H. Abyn**, and C. Guedes Soares, "Comparison of floating structures motion prediction between diffraction, diffraction-viscous and diffraction-Morison methods". Maritime Technology and Engineering- p1145-1152 Guedes Soares & Santos (Eds), 2015 Taylor & Francis Group, London, (ISBN 978-1-138-02727-5)
<http://www.crcnetbase.com/doi/abs/10.1201/b17494-154>
2. C. L. Siow, J Koto, **Hassan Abyn**, Adi Maimun, "Gap distance analysis of floating structures in tandem arrangement", Journal Hydraulic Engineering II , , p255-262, 2013. (ISBN: 978-1-138-00124-4) (Scopus)
http://books.google.com/books?hl=en&lr=&id=kWdmAQAAQBAJ&oi=fnd&pg=PA255&ots=0Uwiqb8f&sig=rQYpsbozd0k_g0igKBGwk--RqZM#v=onepage&q&f=false
3. M.Rafiqul Islam, Adi Maimun, Omar Yaakob, **Hassan Abyn**, "Motion of Floating Ship While Other Ship Passing Nearby" Advances in Marine Technology, Research Management Centre, UTM, Malaysia. (Book Chapter), December 2008.
http://www.penerbit.utm.my/bookchapterdoc/FKM/bookchapter_fkm04.pdf

Journal:

1. **Hassan Abyn**, M. Rafiqul Islam, Adi Maimun, Amin Mahmoudi, Jaswar. "Experimental Study Of Motions Of Two Floating Offshore Structures In Waves", Journal Brodogradnja(Shipbuilding), 2015, ISSN 0007-215X, eISSN1845-5859. (submitted)
2. Amin Mahmoudia, Habib Hakimzadeh, Mohammad Javad Ketabdari, **Hassan Abyn**, "A Modified Wavemaker Boundary Condition for a Numerical Wave Tank Based on the WCSPH Method", Jurnal Teknologi 2015. (submitted)

3. **Hassan Abyn**, Mohammad Rafiqul Islam , Jaswar , Amin Mahmoudi , C. L. Siow , Saman Abd Kader “**Wave Exciting Forces of a Free Floating Semi Submersible in Regular Waves**”, Jurnal Teknologi, Volume 74, Nubmer 5, p53-57, May 2015. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/4641/3229>
4. **Hassan Abyn**, Adi Maimun, Jaswar, M. Rafiqul Islam, Allan Magee, Behnam Bodaghi, Mohammad Pauzi, C.L. Siow, C.L. Siow, M. Mobassher Tofa, “**Hydrodynamic Interaction of Floating Structure in Regular Waves**”, Jurnal Teknologi, Volume 66, Nubmer 2, p91-96, January 2014. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2491>
5. M Mobassher Tofa, Adi Maimun, Yasser M Ahmed, Saeed Jamei, Saman Kader, **Hassan Abyn** “**Vortex induced vibration on two equally diameter cylinder with low mass ratio in tandem**” Journal of Applied Science, p 3578-3584, 2014, (ISSN: 1812-5654)
<http://scialert.net/abstract/?doi=jas.2014.3578.3584>
6. C. L. Siow, Jaswar Koto, **Hassan Abyn**, N. M. Khairuddin “**Prediction of Semi-Submersible’s Motion Response by Using Diffraction Potential Theory and Heave Viscous Damping Correction**”, Jurnal Teknologi, Volume 69, Number 7, p127-133, January 2014. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/3276/0>
7. Siow, C. L, Jaswar Koto, **Hassan Abyn** and N.M Khairuddin, “**Linearized Morison Drag for Improvement Semi-Submersible Heave Response Prediction by Diffraction Potential**” Journal of Ocean, Mechanical and Aerospace (JOMase, ISSN: 2354-7065), V6, 2014
<http://isomase.org/JOMase%204-6.php>
8. C.L Sow, Jaswar Koto and **Hassan Abyn**, “**Semi-Submersible Heave Response Study Using Diffraction Potential Theory with Viscous Damping Correction**” Journal of Ocean, Mechanical and Aerospace (JOMase, ISSN: 2354-7065), V5, 2014
<http://isomase.org/JOMase/Vol.5%20Mar%202014/5-3.pdf>
9. M.Mobassher Tofa, Adi Maimun, Yasser M Ahmed, Saeed Jamei, Saman Kader, **Hassan Abyn** , “**Two Degree of Freedom Vortex Induced Vibration Tests of A Riser model Using Spring Bars**” Applied Mechanics and Materials Vols. 465-466, pp 1339-1346, 2014 (**ISSN**:1662-7482) (Scopus)
<http://www.scientific.net/AMM.465-466.1339>
<http://www.scientific.net/AMM.465-466/25>
10. Jaswar, J., Tiau, K.U., **Abyn, H.**, & Siow, C. L. “**Stability of Mobile Floating Harbor Container Crane**”, Jurnal Teknologi, Volume 66, Number 2, p133-139, January 2014. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2499>
11. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, Jaswar, Behnam Bodaghi, Mohamad Pauzi, C. L. Siow “**Effect of Mesh Number on Accuracy of Semi Submersible Motion**”, Jurnal Teknologi, Volume 66, Number 2, p67-72, January 2014. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2486>

12. M. Mobassher Tofa, Adi Maimun, Yasser M. Ahmed, Saeed Jamei, **Hassan Abyn** “**Experimental and Numerical Studies of Vortex Induced Vibration on Cylinder**”, Jurnal Teknologi, Volume 66, Number 2, p169-175, January 2014. (ISSN: 2180-3722). (Scopus)
<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2512>
13. M. Rafiqul Islam, Adi Maimun Abdul Malek, **Hassan Abyn**, “**Numerical Study of the Effect of Passing Ship on a Moored Ship**” Journal of Ocean and Ship Technology, V2, No.1, June 2011, (ISSN: 0975-301X)
http://www.narosa.com/jrnl_0611.asp

Conference:

1. Adi Maimun, Zulhusni Razin Ismail, M. Mobassher Tofa, **Hassan Abyn** “**Hydrodynamic Interaction Between Tension Leg Platform(TLP) and Semisubmersible in Close Proximity**”, Offshore Technology Conference, 2016.(accepted)
2. **H. Abyn**, A. Maimun, A. Dashtimanesh, A. Mahmoudi, “**Motion of Semi Submersible in Regular Waves**”, 6th International Offshore Industries Conference, Tehran, Sharif University of Technology, Iran, May 2015
3. **Hassan Abyn**, Adi Maimun, Jaswar, M. Rafiqul Islam, C.L. Siow, Behnam Bodaghi Allan Magee, “**TLP Motion Effect on Semisubmersible Motion**”, Proceeding of Offshore Technology Conference Asia, Kuala Lumpur, Malaysia, Volume 1, Pages 538-548, 25–28 March 2014. (Scopus)
<http://www.scopus.com/record/display.url?eid=2-s2.0-84905736632&origin=inward&txGid=C67C787C13CE5A19DD50AF179540AE03.y7E5LndDIIsN8cE7qwvy6w%3a2>
4. **H. Abyn**, A. Maimun, M. R. Islam, Jaswar, B. Bodaghi, C.L.Siow, M. Mobassher, “**Numerical and Experimental Investigations on Hydrodynamics of Semisubmersible**” International Oil and Gas Symposium and Exhibition (IOGSE 2013); 9 Oct. 2013 UMS Malaysia
5. C.L.Siow, Jaswar, Efi Afrizal, **Hassan Abyn**, Adi Maimun, Mohamad Pauzi, “**Comparative of Hydrodynamic Effect between Double Bodies to Single Body in Tank**” The 8th International Conference On Numerical Analysis In Engineering (NAE 2013) university of sumatera utara, 13 May 2013
<http://ft.usu.ac.id/pengumuman-lainnya/102-the-8th-international-conference-on-numerical-analysis-in-engineering-nae-2013.html>
6. C.L. Siow, Jaswar, **Hassan Abyn**, Adi Maimun, “**Gap Distance Analysis of Floating Structure in Tandem Arrangement**” 15th International Congress of the International Maritime Association of the Mediterranean IMAM 2013 (ISI indexed conference)
http://www.imamhomepage.org/imam2013/images/IMAM2013-Tentative_Program.pdf
7. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, Jaswar, Behnam Bodaghi, Mohamad Pauzi, “**Semi Submersible Mesh Number Effect on Time Required and Accuracy of Motion**” International Conference on Marine Technology (MARTEC 2012) Kuala Terengganu, Malaysia 20-22 Oct. 2012
<http://martec.umat.edu.my/files/2012/10/list-of-titles-r1.pdf>

8. **Hassan Abyn**, Adi Maimun, Jaswar, M. Rafiqul Islam, Allan Magee, Behnam Bodaghi, Mohamad Pauzi, “**Model Test of Hydrodynamic Interactions of Floating Structures in Regular Waves**”, The 6th Asia-Pacific Workshop on Marine Hydrodynamics (APHydro2012), UTM, Malaysia , September 3-4, 2012
<http://www.scribd.com/doc/111096161/APHydro-Program-Book>
9. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, Jaswar, Behnam Bodaghi, Mohamad Pauzi, “**Effect of Mesh Number on Accuracy of Semi Submersible Motion Prediction**”, The 6th Asia-Pacific Workshop on Marine Hydrodynamics (APHydro2012), UTM, Malaysia, September 3-4, 2012
<http://www.scribd.com/doc/111096161/APHydro-Program-Book>
10. Tiau, K. U., Jaswar, **Abyn, H.**, & Siow, C. L. “**Study on Mobile Floating Harbor Concept**”, The 6th Asia-Pacific Workshop on Marine Hydrodynamics (APHydro2012), UTM, Malaysia, September 3-4, 2012
<http://www.scribd.com/doc/111096161/APHydro-Program-Book>
11. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, “**Wave Exciting Forces on Semi Submersible**”, Marine science and technology conference (MARSTEC2011), Kuala Lumpur Convention Center, Malaysia, September 12-13, 2011.
<http://www.marstec2011.com/>
12. Allan Magee, Rizwan Sheikh, Kenneth Yeoh Hock Guan, Jaime Tan Hui Choo, Adi Maimun Abdul Malik, Mohamad Pauzi Abdul Ghani, **Hassan Abyn**, “**Model tests for VIM of multi-column floating platforms**”, Proceedings of the ASME 2011 30th International Conference on Ocean, Offshore and Arctic Engineering OMAE2011-49151, June 19-24, 2011, Rotterdam, The Netherlands (Scopus).
http://www.kiviniria.nl/omae2011/omae-program_web.pdf
13. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, “**Moored TLP Responses in Regular Waves**”, The Asia-Pacific Offshore Conference-APOC2010, Kuala Lumpur, December 13-14, 2010.
http://seminar.spaceutm.edu.my/apoc2010/Prog_Schedule_09122010.pdf
14. Allan Magee, Mohamad Pauzi bin Abdul Ghani, Rizwan Sheikh, Kenneth H. G. Yeoh, Jaime H. C. Tan, **Hassan Abyn**, “**Model Testing of Floating Platforms at Universiti Teknologi Malaysia**”, The Asia-Pacific Offshore Conference-APOC2010, Kuala Lumpur, December 13-14, 2010.
http://seminar.spaceutm.edu.my/apoc2010/Prog_Schedule_09122010.pdf
15. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, and Allan Magee, “**Motion Responses and Incident Wave Forces on a Moored Semi submersible in Regular Waves**”, The International Conference on Marine Technology(MARTEC 2010), p 221-226, BUET, Dhaka, Bangladesh, December 11-12, 2010.
<http://www.buet.ac.bd/name/martec2010/2010/File33MARTEC111.pdf>
<http://www.buet.ac.bd/name/martec2010/2010/contents.htm>
16. **Hassan Abyn**, Adi Maimun, M. Rafiqul Islam, Allan Magee, “**Wave Exciting Forces of a Free Floating Semi Submersible in Regular Waves**”, International Graduate Conference on Engineering, Science, and Humanities 2010 (IGCESH2010), UTM, Skudai, Johor Bahru, Malaysia, November 3-4, 2010.
<http://www.igcesh2010.com/>

6) Software and Computer Skills

- Visual Fortran
- Quick Basic
- MATLAB
- AutoCAD
- Hiswa (Hind casting of shallow water)
- Operating systems such as: Windows 7, XP and also Dos.
- Microsoft Office (Excel, Word, Power point)
- Endnote
- HydroStar (Professional software on floating offshore structure)
- Ariane7 (Professional software on mooring of floating offshore structure)
- Home Program on Calculation of Force, Motion and Relative Motion of Floating Structures (My PhD thesis)

7) Professional Awards/Honors Received:

- 1993 – 1996: Ministry of Science, Research and Technology Scholarship for MSc
- 2008 – 2011: Persian Gulf University Scholarship for PhD
- 2008 – 2009: UTM Research Student Grant
- 2012 – 2013: UTM Visiting Researcher

8) Research Interests

- Numerical Techniques in Offshore Engineering
- Ocean Engineering
- Offshore Structures
- Water Wave Theory
- Application of Modeling in Engineering Problem
- Renewable Energy

9) Contact Information

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