



# Dr. SYED QUADIR MOINUDDIN

**Assistant Professor** 

# Personal Data:

Nationality | INDIAN Date of Hire | SEPTEMBER 15, 2024 Date Rank Obtained | SEPTEMBER 15, 2024 Department | MECHANICAL ENGINEERING Email | smoinuddin@kfu.edu.sa Office No | 1094 Office Phone No |

# Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical and Aerospace Engineering	Welding and Additive Manufacturing	Indian Institute of Technology, Hyderabad, Telangana	India	2018
Masters (M.Sc.)	Integrated Design and Manufacturing	Design and Manufacturing	Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu	India	2011
Bachelor (B.Sc.)	Mechanical Engineering	Mechanical Engineering	Anna University, Chennai, Tamil Nadu	India	2009

# PhD, Master, or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Assessment of Arc Stability and its impact in anti-phase synchronized twin-wire GMAW.
Master	Signature Analysis of STBW Joints using GMAW process on T22 tubes.

#### **Experiences:**

Title of Job	Address of Work	Country	Date	
Assistant Brofossor	ICFAI Foundation for Higher Education,	India	From	03-12-2018
Assistant Professor	Hyderabad	mula	То	07-12-2023
Project Assistant	Indian Institute of Technology Hyderabad	India From To	From	18-09-2018
Project Assistant	Indian institute of Technology Hyderabad		28-11-2018	
Senior Research Fellow	Indian Institute of Technology Kharagpur	India	From	31-01-2012
Senior Research renow			То	30-04-2012

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### **Research Interests:**

- 1. Welding and Additive Manufacturing, Arc Physics, Welding Metallurgy.
- 2. Weld Process control and Fault Diagnostics Machine Learning.
- 3. Thermal Energy Management.

#### Publications:

# **PATENTS**

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Sunanda, P., Devaraju, M., <u>Moinuddin, S.Q.,</u> Koppala, N., Kalpana, A.V., Palanivel, K., Chakrabati, P., and Chakrabati, T.,	Wearable Electronic Device for Visually Impaired People	UK Design Patent(6338377), 30 January 2024	Click Here

### **BOOKS**

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	<u>Moinuddin S.Q.,</u> Cheepu M., _and Kantumuchu,V.C.,	Gas Metal Arc Welding : Metal Joining and Additive Manufacturing	Taylor and Francis, 2025	Yet to be published.
2	Moinuddin S.Q, Saheb, H.S., Dewangan, A.K., Cheepu M., and Balamurugan, S.	Automation in the Welding Industry: Incorporating Artificial Intelligence, Machine Learning and Other Technologies	Wiley, 28 February 2024	Click Here

# **BOOK CHAPTERS**

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Cheepu M., <u>Moinuddin S.Q.</u> and Dewangan, A.K.,	Introduction to Industry 5.0	Wiley, 28 February 2024	Click Here
2	Goka, S., Narayana, G.S. ,Jyothi, D., Saheb, S., and <u>Moinuddin S.Q</u> .,	AI and ML in Welding Technologies	Wiley, 28 February 2024	Click Here
3	Goka, S., Srirama, S. N., Jyothi, D., <u>Moinuddin S.Q</u> ., and Saheb, S.	Welding-Based 3D, 4D, 5D Printing	Wiley 28 February 2024	Click Here
4	Kantumuchu,V.C., <u>Moinuddin S.Q.</u> Dewangan, A.K., and Cheepu M.	Quality Assurance and Control in Welding and Additive Manufacturing	Wiley , 28 February 2024	Click Here
5	Goka, S., <u>Moinuddin S.Q.</u> Dewangan, A.K., and Cheepu M.	Welding Practices in Industry 5.0: Opportunities, Challenges, and Applications	Wiley, 28 February 2024	Click Here
6	Goka, S., <u>Moinuddin S.Q,</u> Dewangan, A.K.,	Battery Management System for Electric Vehicles	Taylor and Francis, 29 November 2023	Click Here
7	Goka, S., <u>Moinuddin S.Q.</u> Dewangan, A.K.,Saheb, H.S., and Madhavi, B.	Augmented Reality in Computer- Aided Design (CAD)	Wiley-Scrivener Publication, 28 September 2023	Click Here





8	Dewangan, A.K., <u>Moinuddin, S.Q.,</u> Cheepu M., Sajjan.S.K., and Kumar, A.	Thermal Energy Storage: Opportunities, Challenges and Future Scope	Taylor and Francis, 30 June 2023	Click Here
9	Kapil, A., <u>Moinuddin, S.Q.,</u> and Sharma, A.	Digitization of welding processes	Elsevier, 14 January 2022	Click Here
10	<u>Moinuddin,S.Q.,</u> Dewangan,	Direct Metal Laser Sintering	Bentham Science Publisher,	Click Here
10	A.K., and Roshan, S.,	Process	March 2021	Chek Here
11	Moinuddin, S.Q., and	Multiple-Wire Welding GMAW	Taylor and Francis,	Click Hore
11	Sharma, A.	and SAW	13 March 2019	CIICK Here

# **INTERNATIONAL JOURNALS**

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Radhakrishnan K., Hameed, S.S, Muralitharan, V., <u>Moinuddin SQ,</u>	Optimizing Process Parameters and a Comparative Study of Post- Weld Heat Treatments on the Microstructure and Mechanical Properties of 0.3%C-Cr-Mo-V Steel	Springer, 10 March 2024	Click Here
2	<u>Moinuddin SQ</u> , Machireddy VV, Raghavender V, Kaniganti TB, Sarila V, Ponnappan SM, Shanmugam R, Cheepu M.	Analysis on Bonding Interface during Solid State Additive Manufacturing between 18Cr- 8Ni and 42CrMo4 High Performance Alloys.	Metals, MDPI. 27 February 2023	Click Here
3	Sarila, V.K., <u>Moinuddin,</u> <u>S.Q.,</u> Cheepu, M.M., Rajendran, H., Kantumuchu, V.C.,	Characterization of Microstructural Anisotropy in 17- 4PH Stainless Steel Fabricated by DMLS Additive Manufacturing and Laser Shot Peening	Springer, 03 September 2022	Click Here
4	<u>Moinuddin, S.Q.,</u> Hameed, S.S, Dewangan, A.K., Kumar, R. and Kumari, S.	A Study on Weld Defects Classification in Gas Metal Arc Welding Process using Machine Learning Techniques	Elsevier, 27 January 2021	Click Here
5	Kumar, M., <u>Moinuddin,</u> <u>S.Q.,</u> Surya, S. and Sharma, A.	Discrete wavelet analysis of mutually interfering co-existing welding signals in twin-wire robotic welding.	Elsevier, 29 April 2020	Click Here
6	<u>Moinuddin, S.Q.,</u> and Sharma, A.	Arc behavior study using welding current module and its impact on residual stresses and weld bead in ant- phase synchronized twin-wire gas metal arc welding process	Indian Welding Journal, 01 January 2019	Click Here
7	<u>Moinuddin, S.Q.,</u> Kapil, A., Kohama, K., Sharma, A., Ito, K. and Tanaka, M.	On process structure-property interconnection in anti-phase synchronized twin-wire GMAW of low carbon steel	Taylor and Francis, 13 April 2016	Click Here

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8	<u>Moinuddin, S.Q.,</u> and Sharma, A.	Arc stability and its impact on weld properties and microstructure in anti-phase synchronized twin-wire Gas Metal Arc welding	Elsevier, 15 February 2015	Click Here
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#### **INTERNATIONAL CONFERENCES**

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Madhavi, Kishore, P., B. <u>Moinuddin, S.Q.,</u> and Narayana, K.L.	Parametric optimization on friction stir welded joints of AA5052-H32 aluminum alloys using Taguchi technique	AIP Conference. 20 February 2024	Click Here
2	Waleed, T., Ateeq, K., Moinuddin S.Q, Aslam, S., Rehman, A., Asgher, T., and Thawabeh, O.A.	Direct Trust in Cloud Computing Based on Fuzzy Logic	IEEE Xplore, 03 January 2023	Click Here
3	<u>Moinuddin, S.Q.,</u> and Sharma, A.	Effect of Welding Speed on Arc Stability and its Impact on Structure – Property in Anti- Phase Synchronized Twin-Wire GMAW Process	IIW, 7-12 July 2019	Click Here
4	<u>Moinuddin, S.Q.,</u> and Sharma, A.	Arc Behavior Study using Welding Current Module and its Impact on Residual Stresses and Weld Bead in Anti-phase Synchronized Twin-wire Gas Metal Arc Welding Process	Indian Welding Journal, 01 January 2019	Click Here
5	<u>Moinuddin, S.Q.,</u> Kuma, M., Simhambhatla, S., and Sharma, A.	Assessment of twin-wire GMAW as a candidate for large scale arc based Additive manufacturing	American Welding Society (AWS) 11-14 October 2016	Click Here
6	<u>Moinuddin, S.Q.,</u> and Sharma, A.	Melting Efficiency in Anti-Phase Synchronized Twin-wire Gas Metal Arc Welding	American Welding Society (AWS) 11-14 October 2016	Click Here

#### Language Proficiency:

- 1. English (Advanced)
- 2. Tamil (Advanced)
- 3. Hindi (Intermediate)