

CV

Sohail Forouzan-sepehr

BSc MSc MPhil CEng MStructE

Chartered Structural Engineer with strong experience and knowledge in bridge engineering design, maintenance and management



PROFILE

Sohail is a chartered structural engineer with over twenty-five years of experience in major project design, assessment and framework delivery in the United Kingdom and the Middle East. His experience includes design leadership, resource/project/quality management, highway/railway structures review and assessment at various levels, conceptual and detailed design of new bridges and strengthening of existing structures to various national and international codes (British Standards, National Highways DMRB, Network Rail, Eurocode, CDM, ACI, AASHTO, AREMA and Iranian National Codes), as well as mentoring/coaching engineers and lecturing at universities, engineering workshops and consulting engineers.

He has also authored several engineering journal/conference papers and books and collaborated on a number of academic research projects and engineering software development.

For detailed information, please refer to:

- <https://www.sfsepehr.com/>
- <https://my.sfsepehr.com/pro>

The latest updated CV is available at:

- <https://my.sfsepehr.com/cv>

KEY EXPERIENCE

- Highway and railway structures conceptual and detailed design;
- Management of sub-standard highway structures;
- Assessment and strengthening of highway and railway structures;
- Soil-structure interaction;
- CDM compliance of highway structures schemes;
- Project management;
- Resource management including outsourcing and recruiting;
- Work winning;
- Team building, team management and development of technical excellence;
- Implementing lean concepts in design and management;
- Design process appraisal;
- Providing technical consultation/advice to international, national and local authorities;
- Mentoring and lecturing engineering courses;
- Computational mechanics of structures.

QUALIFICATIONS AND TRAINING

- *MPhil* in Structural Engineering (1st rank award in the entrance exam)
- *MSc* in Structural Engineering (2nd rank award)
- *BSc* in Civil Engineering (1st rank award)
- Chartered Engineer (*CEng*)
- Member of the Institution of Structural Engineers (*MStructE*)
- Construction Skills Certification Scheme (*CSCS*) Professionally Qualified Person
- IOSH Managing Safely in Construction
- APS Principal Designer
- Lean Foundation Course
- AECOM Effective Manager
- AECOM Project Management accreditation

COMPUTER SKILLS

- *Programming languages*: Fortran 77, Turbo Pascal, Visual Basic.NET 2005, HTML
- *Engineering packages*: LUSAS, COBRAS, LimitState RING, LimitState Slab, SAP 2000, Tedds, HEC-RAS, Mathcad, AutoCAD, MS Excel, MS Project
- *Miscellaneous software*: MS Office 365, etc

SELECTED EXPERIENCE WITH AECOM (2020 – PRESENT)

Associate Director, Bridges and Structures

Technical lead, project management and discipline lead of various highway and railway structures design, assessment and inspection for Network Rail, National Highways, local authorities, etc.

- **Royal Naval Air Services (RNAS) Culdrose Concrete Road Bridge Phases 2 to 4 (Project Manager and Technical Lead):** Client: VIVO Defence Services Limited on behalf of Defence Infrastructure Organisation. Technical lead and project management for preliminary (including surveys) and detailed design of remedial works, structural review and assessment of a privately owned multi-span prestressed concrete bridge in Cornwall.
- **MNTP Manchester Oxford Road Station Remodelling ES2-4 (Discipline Lead/CRE):** Client: Network Rail. Technical lead/discipline lead/CRE for assessment of a multi-span masonry arch viaduct and associated cast iron and concrete structures on the North-West route at Manchester Oxford Road station under the proposed interventions of a multi-disciplinary scheme.
- **Kent County Council Engineering Design Services Framework Reconstruction of Grove Ferry Bridge (Project Manager, Technical and Discipline Lead):** Client: Kent County Council. Project lead and management of a multi-disciplinary project as well as structures discipline lead for option study and design of a new half-through steel road bridge over River Great Stour in Kent.
- **Kent County Council Engineering Design Services Framework Tunnels Management (Project Manager):** Client: Kent County Council. Project management for fire and ventilation assessment of a few tunnels in Kent by a specialist subconsultant.
- **Kent County Council Professional Services Framework Bridge Inspections (Project Manager and Lead):** Client: Kent County Council. Team lead and project management for principal bridge inspections, confined space inspections and trackside inspections of several highway bridges and structures in Kent utilising trained resources and modern technology for remote surveys.
- **Civils Assessments Framework Agreement (CAFA) (Technical Lead):** Client: Network Rail. Technical lead of new assessments at Level 1 and Level 2, and existing assessments review of various railway bridges on the Anglia, Kent and North-West routes.
- **M11 J7a Improvements (Technical Lead):** Client: Graham Construction and Essex County Council. Technical lead of design of several earth-retaining and buried structures on Essex County Council and National Highways (formerly Highways England) routes in Essex.
- **OD 6&8 Inspections (Technical Reviewer):** Client: National Highways (formerly Highways England). Technical review of several highway structures principal and general inspection reports for Areas 6 and 8 of National Highways.

CAREER BREAK OVERSEAS (2018 – 2020)

Career break overseas to focus on family and personal life, supervision of refurbishment of family properties, occasionally providing technical consultations and CPD presentations to the local consulting engineers, etc.

SELECTED EXPERIENCE WITH CH2M NOW JACOBS (2016 – 2018)

Area 4 Structures Design Team Leader

Led A-one+ Area 4 Structures Design Team undertaking resource management, team building with incorporated interviews and technical exams, technical supervision (concepts, buildability, CDM) and design/assessment/option study schemes lead on National Highways (formerly Highways England) Area 4 structures schemes, development of design management processes and strategies, undertaking CDM 2015 Principal Designer duties, providing technical consultancy to Highways England, etc.

- **M20 Cradlebridge Railway Bridge (Team Leader/Technical Reviewer):** Client: Highways England. Led the in-house assessment and outsourced independent check of the structure undertaking technical lead, as well as the concrete refurbishment of a single span of 10.3 m carrying M20 motorway over Canterbury-Ashford-Ramsgate railway. Also, prepared BD 79 review of provisionally substandard structure with proposed installation and removal of interim mitigation measures, and managed concrete refurbishment studies and works.
- **A27 Stockbridge Footbridge Replacement (Team Leader):** Client: Highways England. Led the in-house design and outsourced independent check undertaking technical lead of a replacement 30.0 m main span of a steel truss footbridge over A27 trunk road, and a mitigation for the excessive oscillation of the structure. The existing bridge had a low headroom and been subject to high vehicle collision to its soffit.
- **M20 East Street Footbridge Replacement (Team Leader):** Client: Highways England. Led the in-house and outsourced different design/check teams for the demolition of the existing ramp, detailed design of the new two-span steel footbridge and its associated multi-span ramp, as well as undertaking technical lead on structure/soil-structure interaction, buildability and procurement, etc. The main span of the proposed structure is 43 m with a side span of 22 m and 85 m long ramp. The existing footbridge collapsed due to its low headroom and vehicle collision to its soffit.
- **Heavy Load Routes Structural Assessment (Team Leader/Technical Reviewer):** Client: Highways England. Resourced and led the assessment and independent check teams of several highway structures assessment, and technical review of the structures.

SELECTED EXPERIENCE WITH ATKINS (2015 – 2016)

Senior Bridge Engineer

Undertook several roles such as lead designer/assessor, technical reviewer/advisor, design consultant, senior inspector, etc on a number of structure schemes for different clients.

- **Renewable Energy Noise Barriers (Technical Reviewer):** Client: Highways England. Technical review of structural aspects of AIP's for the design of photovoltaic noise barriers on Training locations along the M40. The scheme comprised developing cost-effective environmental barriers to reduce traffic noise for communities adjacent to major roads, together with the aim of developing innovative approaches that can achieve low carbon energy production which could be used locally. The AIP's were originated by a group of structural, electrical and acoustic engineers.
- **Strengthening of Heathrow Airport Main Tunnel Q6 (Technical Checker):** Client: Heathrow Airport. Design check of further strengthening of a multi-cell tunnel structure under the airport runway and taxiways to sustain known current and future (by 2019) aircrafts loading. The roof slab of the structure had been strengthened before by adding a new layer of reinforced concrete to the original soffit. However, recent inspections and assessment indicated the longitudinal shear capacity of the interface not to be adequate and require further strengthening.
- **M25 DBFO Substandard Structures Management (Technical Reviewer):** Client: Connect Plus Structures. Technical review of 'Initial Structure Option Reports' (ISOR's). The aim was to determine whether each structure is provisionally substandard and requires further assessment in accordance with BD 101/11.
- **Gosford Street Public Realm Enhancement (Design Consultant):** Client: Coventry City Council and Coventry University. Provided structural consultancy, CDM, design and construction advice to Coventry City Council to comply with current standards as well as the landscape architects requirements. The scheme consisted of enhancing the general landscape of the public areas within Coventry University by constructing new ponds, pedestrian ways, cycle shelter, etc.
- **Assessment of Ham Bridge (Assessment Team Leader):** Client: Thames Water. Assessment technical lead of a half-through steel bridge over Thames River. The bridge is the only means of access to Ham Island; however, the soffit of the bridge superstructure is in poor condition. Although the bridge was determined to be incapable of sustaining full assessment live loading, possible interim measures and departure from standards were also investigated in a view of maintaining the access for Thames Water vehicles till its strengthening. Also, proposed a viable strengthening option with minimum possible construction time which later on, was implemented in detailed design and construction.

- **M25 Junction 28 (Design Team Leader):** Client: Highways England. Preliminary design lead of several highway and railway structures including a number of viaducts carrying M25 and A12, a jacked subway under an existing railway, etc.
- **Wadi Bani Hinay New Bridge (Technical Reviewer):** Client: Sultanate of Oman's Ministry of Regional Municipality and Water Resources. Technical review of elastomeric bearings specifications and quality testing for a new highways bridge in the Middle East in accordance with relevant American Codes.
- **Pitsea Footbridge (Design Team Leader):** Client: Veolia and Essex County Council. Design lead of reinforced concrete substructure and approached ramp of a piled footbridge over Network Rail tracks as well as technical review of soil-structure interaction, buildability and CDM review.
- **Structures and Tunnels Investment Portfolio Stage 2 (STIP 2) (Assessment Team Leader):** Client: Transport for London. Assessment lead of Lambeth Bridge over River Thames as well as senior inspector of Lambeth and Vauxhall Bridges.
- **C122 Bored Tunnels (Senior Inspector):** Client: Crossrail. Structural survey of Silvertown Footbridge in the proximity of London City Airport. The structure is owned by Crossrail and spans over a new Crossrail dual-track line.

SELECTED EXPERIENCE WITH RAMBOLL (2014)

Senior Bridge Engineer

Carried out design lead and technical review on a number of structural schemes for different clients. Also, mentored a number of graduate engineers.

- **White City New Bridges (Design Technical Leader):** Client: St James Development, TAA: Transport for London. Design technical lead and CDM compliance review of a half-through steel girder highways bridge and a composite steel girder pedestrian platform over London Underground Central Line.
- **Structures and Tunnels Investment Portfolio Stage 2 (STIP 2) (Technical Reviewer):** Client: Transport for London. Review of available records and gap analysis to identify missing information, as well as recommendations for potential items of work to ensure reliable operation of all structures along A40 Westway in London.
- **Mentoring (Delegate Engineer):** Assisted a number of Graduate Members of the Institution of Civil Engineers (ICE) in achieving their chartership.

SELECTED EXPERIENCE WITH JACOBS (2013 – 2014)

Senior Bridge Engineer

As a senior bridge engineer, carried out a number of duties such as lead designer and technical reviewer/advisor mainly to Essex County Council. Also, contributed to improving technical excellence.

- **Rail Incursion Risk Reduction at Rayners Farm Bridge (Lead Designer):** Client: Essex County Council and Network Rail. Feasibility study, CDM compliance and detailed design of earth retaining structures to act as a foundation for full-height anchors and also retain the existing slopes. Rayners Farm Bridge is a single-span structure located in Little Clacton, Essex over a dual-track high-speed railway with brickwork parapets and no continuous approach and departure safety barriers to the end of the parapets. The scheme comprised the installation of new safety barriers with full-height anchors over ground beams which have to stabilise and retain the existing vertical slopes.
- **Reconstruction of Roding (Small) Bridge Footway (Lead Designer):** Client: Essex County Council. Detailed design of a new reinforced concrete slab integral bridge carrying the north footway of Roding Lane, Buckhurst Hill, Essex. The existing footway was over an existing unstable extension to the original brickwork arch bridge. The scheme comprises removal of the existing extension, stabilising the embankment and construction of a new bridge adjacent to the original arch bridge.

- **Technical Review of Third Parties Design AIP's for Acceptance On Behalf of Essex County Council (Technical Reviewer):** Client: Essex County Council. Review of various design AIP's by third parties including Design of A138 New Chelmer Viaduct, Design of New Chelmer Flood Relief Culverts, Retention of Caissons in Northern Approach Road – Phase 3 (NAR3), and Army and Navy Subway Northern Access Ramp on behalf of Essex County Council for compliance with CDM, current standards and Essex County Council requirements as well as approval of technical aspects of proposed schemes.
- **Halstead Depot Salt Barn (Technical Reviewer/Consultant/Senior Designer):** Client: Essex County Council. Technical review and design verification of the structure on behalf of Essex County Council as well as proposal and detailed design of an alternative option which would result in a significant saving in the County Council budget with a higher level of safety. The scheme comprised design and construction of a new piled barn on the top of a made ground embankment and close to the crest of an existing slope to store 700 tonnes of de-icing salt with an Essex Highways depot.
- **Assessment of Essex County Bridges (Project Manager/Technical Reviewer):** Client: Essex County Council. Project management and technical review of assessment AIP's of various Essex County bridges. The assessments would be carried out by India Office and the AIP's had to be reviewed and submitted within a certain timescale.
- **Technical Excellence Support:** Mentored members of staff on conceptual design and detailed design in accordance with Eurocodes. Published technical blog posts entitled 'Understanding An Engineering Project' and administrated various technical forums including Bridge Engineering, Eurocodes for Structures, Mathcad, LUSAS, etc on the professional network of the company, and developing several design software packages. Also, developed technical tests in bridge engineering for senior engineers' recruitment interviews.

SELECTED EXPERIENCE WITH RINGWAY JACOBS (2012 – 2013)

Senior Bridge Engineer

Following a promotion to Senior Bridge Engineer position and consequently, a TUPE transfer from Mouchel to Ringway Jacobs, continued working on various stages of structural schemes mainly for Essex County Council. Also, continued mentoring Anglia Ruskin University second-year students of civil engineering.

- **Strengthening of Hercules Bridge (Senior Designer):** Client: Essex County Council. Feasibility study and detailed design of a new reinforced concrete arch bridge to the intrados of an existing masonry arch bridge. The existing bridge was indicated to be inadequate to sustain full assessment live loading and the proposed strengthening would enhance its structural capacity to the full ALL. The scheme comprised fixing new reinforcement to the intrados of the existing arch with dowels and building a new structural layer by spray concrete operation. The new reinforced concrete arch would sustain the overall loads and the existing bridge would act as permanent formwork.
- **Reconstruction of Fish and Eels Bridge (Senior Designer/Design Technical Leader):** Client: Essex County Council. Provided feasibility study in compliance with British Waterway standards and technical lead of detailed design of a new bridge in Hoddesdon, Essex over River Lee Navigation.
- **Tortoise House Retaining Wall (Technical Checker):** Client: Essex County Council. Detailed design verification of a piled retaining wall which would protect a residential building against any possible vehicle incursion from the adjacent highway.
- **Mentoring (Mentor):** Client: Anglia Ruskin University. Mentored Anglia Ruskin University second-year students of civil engineering. The aim was to introduce the working environment to the students and assist them in planning for their professional careers. Also, presented the importance of mentoring at the university on behalf of the company.

SELECTED EXPERIENCE WITH MOUCHEL (2008 – 2012)

Bridge Engineer

Upon moving to the United Kingdom, worked as a Bridge Engineer on different stages of projects mainly for Essex County Council undertaking maintenance and refurbishment of their existing bridges as well as preliminary/detailed

design of several new bridging structures. Also, mentored the second-year civil engineering students of Anglia Ruskin University. Undertook SHEQ Champion and Environmental Coordinator duties as well.

- **Assessment of Essex County Box-Culverts and London City Bridges (Assessor):** Clients: Essex County Council / City of London. Re-assessed various highway bridges and culverts using yield line analysis and other rigorous methods to enhance the assessment rates of the structure. The re-assessments insured several provisionally substandard bridges to have adequate structural capacity without any requirements for further strengthening and thus, resulted in a significant saving in the County Council budget.
- **Strengthening of Maldon Road and Ladywell Bridges (Designer):** Client: Essex County Council. Feasibility study, detailed design, site liaison/support, and scheme finalisation for strengthening of piers of two number of three-span bridges against possible vehicle collision; as well as strengthening of deck transverse link beams, etc against accidental vehicle loading over the bridge.
- **Strengthening of Smiths Green Bridge (Designer):** Client: Essex County Council. Detailed design, site liaison/support and scheme finalisation of a new structure supporting the existing weak bridge. The existing bridge was a masonry arch structure with a 3-tonne weight restriction. The proposed strengthening enhanced its structural capacity to the full ALL. The scheme comprised fixing new reinforcement to the intrados of the existing arch with dowels and building a new structural layer by spray concrete operation. The new reinforced concrete arch sustains the overall loads and the original bridge acts as permanent formwork.
- **Roscommon Way Extension New Structures (Designer):** Client: Essex County Council. Option study, feasibility study and detailed design of new reinforced concrete voided slab integral bridges and plant protection structures in Canvey Island. The alluvium subgrade of the site necessitated specific considerations in regard to the soil-structure interaction. Therefore, also carried out a technical review of the approaches for implementing geotechnical considerations in design.
- **Refurbishment of Pitsea Flyover (Designer):** Client: Essex County Council. Detailed design for refurbishment of various reinforced concrete piers and retaining walls.
- **New Sutton Ford Bridge (Designer):** Client: Essex County Council. Detailed design of a new bridge. The superstructure consists of precast prestressed concrete beams with in-situ reinforced concrete slab and is integral with reinforced concrete bearing piles.
- **Safety, Health, Environment and Quality (Environmental Coordinator, SHEQ Champion):** Client: Mouchel. Undertaken the duties of Environmental Coordinator and SHEQ Champion to ensure full compliance of the work environment with relevant regulations and to improve the culture of SHEQ within the office.

SELECTED EXPERIENCE WITH HEXA CONSULTING ENGINEERS (2003 – 2008)

Design Team Leader (2007 – 2008)

Promoted to the Bridge Design Team Leader position in 2007 while undertaking the duties of a Bridge Design Engineer at the same time. As a team leader, managed a team of five structural engineers and three draftsmen carrying out a number of major bridge design schemes mainly for Iran's Ministry of Roads and Transportation. During the period, served the company as the IT Department Leader especially, supervising the new IT network design and implementation as well.

Bridge Design Engineer (2003 – 2008)

Carried out preliminary/detailed design of a number of major prestressed/reinforced concrete and box-girder highway/railway bridges for Iran's Ministry of Roads and Transportation as well as a number of local authorities.

- **Mianeh – Bostanabad – Tabriz Double Track Railway Bridges (Designer/Design Lead/Project Manager):** Client: Iran's Ministry of Roads and Transportation. Detailed design, project management (design stage) and design supervision of eight number 40 m multi-span steel box-girder bridges over valleys of 30-50 m deep on a design and build scheme.

- **Kermanshah – Bisotoun Eastern Bypass Bridge (Designer/Project Manager):** Client: Iran's Ministry of Roads and Transportation. Detailed design and design stage project management of a 30 m span voided slab reinforced concrete highway bridge.
- **Bridges of Second Runway of Chalus – Noshahr Bypass (Designer/Project Manager):** Client: Iran's Ministry of Roads and Transportation. Preliminary design and design stage project management of three number 2x 30 m spans highway bridges.
- **Chalus Grand Bridge (Designer/Project Manager):** Client: Iran's Ministry of Roads and Transportation. Detailed design and design stage project management of a highway bridge superstructure comprising 8x 40 m precast prestressed concrete beams.
- **Esfahan – Azna Single Track Railway Bridges (Designer):** Client: Iran's Ministry of Roads and Transportation. Preliminary design including hydraulic studies of three number 25 m multi-span bridges.
- **Chabahar – Fahraj Single Track Railway Bridges (Designer):** Client: Iran's Ministry of Roads and Transportation. Preliminary design including hydraulic studies of seven bridges comprising 25 m multi-span precast prestressed concrete beams.
- **Dezful 5th Highway Bridges (Designer):** Client: Municipality of Dezful. Detailed design of a 28.35 + 9x 45.30 + 28.35 m bridge superstructure comprising precast prestressed concrete segments installed in place using balanced cantilever method.
- **Mond 3rd Highway Bridges (Designer):** Client: Roads and Transportation Organisation of Bushehr. Detailed design of a 28x 25.0 m multi-span reinforced concrete bridge over River Mond.
- **Jolfa Highway Bridge (Designer):** Client: Iran's Border Terminals Organisation. Detailed design of a reinforced concrete multi-span 250.62 m long bridge over River Aras connecting Nakhichevan Autonomous Republic and Iran.

EXPERIENCE WITH UNIVERSITY OF TEHRAN (2002 – 2007)

Researcher (2000 – 2007)

Undertaken a number of researches for University of Tehran Vice Chancellor for Research and Iran Aircraft Manufacturing Industry (HESA).

Workshop Lecturer (2005)

Lectured a number of short courses on bridge engineering to the Iran's Ministry of Roads and Transportation members of staff on behalf of University of Tehran at Science and Technology University of Iran.

Contract Lecturer (2003 – 2004)

Lectured engineering courses to the graduate students at the Department of Industrial Design, Faculty of Fine Arts.

Teacher Assistant (2002 – 2004)

Lectured (as TA) to the master's degree students at the Department of Civil Engineering, Faculty of Engineering.

EXPERIENCE WITH PARS PADIR CONSULTING ENGINEERS (1998)

Student Engineer

Carried out detailed design and verification of a number of steel structure residential buildings during graduate studies.

EXPERIENCE WITH AMIR KABIR UNIVERSITY OF TECHNOLOGY (1996 – 1998)

Teacher Assistant

Lectured (as TA) to the graduate students at the Faculty of Civil and Environmental Engineering.

PUBLICATIONS AND PAPERS

Dissertation

- S Forouzan-sepehr (2001); “*A Contact Based Method for 3D Delamination Analysis of Composites Subjected to Impact Loading*”, Master Thesis, School of Civil Engineering, University of Tehran, Iran.

Research Reports

- S Forouzan-sepehr, S Mohammadi (2001); “*3D Analysis of Initiation and Propagation of Delamination in Composites Under Impact Loading*”, Grant No 614/2/627, Vice Chancellor for Research, University of Tehran
- S Forouzan-sepehr, S Mohammadi (2004); “*Meshless Methods for the Analysis of Engineering problems*”, Grant No 614/2/988, Vice Chancellor for Research, University of Tehran

Papers

- S Forouzan-sepehr, S Mohammadi (2010); “*A Fast Mesh-Free Galerkin Method for the Analysis of Steady-State Heat Transfer*”, Journal of Aerospace Science and Technology, Sharif University of Technology, Tehran, Iran.
- S Forouzan-sepehr, S Mohammadi (2005); “*Dynamic Analysis of Delamination in Composite Shells*”, Journal of Faculty of Engineering, University of Tehran (Special Issue on Civil Engineering), Vol 39, No 3, pp 389-401.
- S Mohammadi, S Forouzan-sepehr (2003); “*3D Adaptive Multi Fracture Analysis of Composites*”, in: MP Cartmell (editor); Proceedings of the 5th International Conference on Modern Practice in Stress and Vibration Analysis, Vols 440-441, pp 145-152, Glasgow, Scotland.
- S Mohammadi, S Forouzan-sepehr (2003); “*3D Analysis of Initiation and Propagation of Interlaminar Cracks in Composite Shells Subjected to Impact Loading*”, in: Proceedings of the 4th Iranian Aerospace Society Conference, Vol 1: Aerospace Structures, pp 372-381, Tehran, Iran.
- S Mohammadi, S Forouzan-sepehr, A Asadollahi (2002); “*Contact Based Delamination and Fracture Analysis of Composites*”, Thin-Walled Structures, Vol 40, No 7-8, pp 595-609.
- S Forouzan-sepehr, S Mohammadi (2001); “*A Contact Based Method for 3D Delamination Analysis of Composites Subjected to Impact Loading*”, in: S Valliappan, N Khalili (editors), Proceedings of APCOM '01: First Asian-Pacific Congress on Computational Mechanics, pp 691-696, Sydney, NSW, Australia.

Books

- S Forouzan-sepehr (2005); “*Intellectual Skill-Learning Questions*”, Mobtakeran, Tehran, Iran.
- S Forouzan-sepehr, A Safaeian (2000); “*Maths Questions for Lower Secondary School Students*”, Mobtakeran, Tehran, Iran.
- S Forouzan-sepehr (1996); “*Multi-Choice Questions of Maths for Lower Secondary School Students*”, Mobtakeran, Tehran, Iran.

Developed Software Packages

- Participated in developing *ELFEN* for 3D delamination analysis of composites using finite/discrete element methods and Fortran 77.
- Programmed *EFAP 2006*, an academic purpose software for analysis of heat transfer problems and error estimation using element-free methods and Visual Basic.NET 2005 (refer to <https://efap.sfsepehr.com/>).
- Developed several design software packages based on various standards including BS, DMRB and Eurocodes using Mathcad and Excel