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| CONTACT INFORMATION | <p>Research Associate Institute for Computational Engineering and Sciences (ICES) The University of Texas at Austin 6.330 Peter O'Donnell Jr. Building Austin, Texas 78712</p> | <p>danial@ices.utexas.edu Phone: 512-232-7219</p> |
| RESEARCH INTERESTS | <ul style="list-style-type: none"> • Multiscale and Multiphysics Modeling • Nonlinear and Nonlocal Theories of Continuum Solid Mechanics • Reduced Order Modeling of Molecular Systems • Couple Particle and Continuum Modeling • Data-Enabled Predictive Science • Bayesian Model Validation and Uncertainty Quantification • <i>Applications:</i> Advanced micro- and nano-manufacturing, Tumor modeling and image derived treatment, Energy storage devices, Nonlinear and failure processes in structures/materials under extreme conditions, and other complex systems. | |
| EDUCATION | <p>University of Texas at Austin, Austin, TX 2013 – 2015 Postdoc., Computational Engineering Advisor: Prof. J. Tinsley Oden</p> <p>Louisiana State University, Baton Rouge, LA 2008 – 2012 Ph.D., Structural Engineering and Mechanics, <i>Minor:</i> Material Science Advisor: Prof. George Z. Voyiadjis GPA: 4.00/4.00 Dissertation: <i>Continuum and Crystal Strain Gradient Plasticity with Energetic and Dissipative Length and Time Scales</i></p> <p>Sharif University of Technology, Tehran, IRAN 2005 – 2008 M.S., Civil Engineering</p> <p>K.N.Toosi University of Technology, Tehran, IRAN 2000 – 2005 B.S., Civil Engineering</p> | |
| RESEARCH EXPERIENCE | <p>Research Associate 2016 – present University of Texas at Austin, Austin, TX, USA Institute for Computational Engineering and Sciences Supervisors: Prof. J. Tinsley Oden and Prof. Thomas Yankeelov <i>Projects:</i></p> <ul style="list-style-type: none"> • <i>Current:</i> Goal Oriented Adaptive Modeling of Stochastic Multiscale Material Systems. Collaborator: <i>Barbara Wohlmuth (Technical University of Munich)</i> • <i>Current:</i> Predictive Multiscale Modeling of Cancer Growth and Imaging Data Guided Treatment. Collaborator: <i>David Fuentes (UT MD Anderson Cancer Center)</i> Sponsor : <i>National Institutes of Health</i> • <i>Past:</i> Multifidelity Modeling of Supercapacitor Batteries. Collaborator: <i>John A. Turner (CEES Group, Oak Ridge National Laboratory)</i> Sponsor : <i>Department of Energy's Advanced Scientific Computing Research</i> • <i>Past:</i> Uncertainty Analysis of Plasma Fusion Reactors: ITER Tokamak. Collaborator: <i>Choong-Seock Chang (Princeton Plasma Physics Laboratory)</i> | |

Postdoctoral Fellow**2013 – 2015**

University of Texas at Austin, Austin, TX, USA
 Institute for Computational Engineering and Sciences
 Supervisor: **Prof. J. Tinsley Oden**

Projects:

- **Data Driven Systems for Realtime Monitoring of Damage in Composites**
 Sponsored by: *The Air Force Office of Scientific Research (AFOSR)*
 Collaborator: *Dr. K. Ravi-Chandar (Aerospace Eng Department, UT Austin)*
- **Multiscale (Atomistic–CoarseGrained–Continuum) Simulations of Polymers: Application to Nanopatterning of Semiconductors**
 Sponsored by: *Department of Energy's Advanced Scientific Computing Research*
 Collaborator: *Dr. Grant Wilson (Chemical Eng Department, UT Austin)*

Research Assistant**2010 – 2012**

Louisiana State University, Baton Rouge, LA, USA
 Advanced Computational Solid Mechanics Laboratory,
 Department of Civil and Environmental Engineering,
 Supervisor: **Prof. George Z. Voyiadjis**

Projects:

- **Characterization of Impact Damage in Metal Matrix Composites**
 Sponsored by: *Louisiana Space Consortium (LaSAPCE)/NASA EPSCoR.*

TEACHING
EXPERIENCE**Instructor**

- University of Texas at San Antonio, San Antonio, TX, USA **Fall 2016**
 Department of Civil and Environmental Engineering
Finite Element Methods (Graduate course)
- University of Texas at Austin, Austin, TX, USA **Fall 2013**
 Department of Aerospace Engineering and Engineering Mechanics
Engineering Computation: Numerical methods and applications to aerospace engineering problems (Undergraduate course)

Teaching Assistant**2008- 2012**

Louisiana State University, Baton Rouge, LA, USA
 Department of Civil and Environmental Engineering,

- Plasticity of Structural Engineering (Graduate course)
- Solid Mechanics (Graduate course)
- Damage Mechanics (Graduate course)
- Statics (Undergraduate course)
- Mechanics of Materials (Undergraduate course)

BOOK CHAPTERS

1. Oden, J. T., Babuska, I., and **Faghihi, D.** (2017). Predictive Computational Science: Computer Predictions in the Presence of Uncertainty. In *Encyclopedia of Computational Mechanics*. John Wiley & Sons.
2. **Faghihi, D.**, Ravi-Chandar, K., and Oden, J. T. (2014). A System for Monitoring Damage in Composite Materials Using Statistical Calibrations and Bayesian Model Selection. In *Dynamic Data Driven Applications Systems (DDDAS)*. Springer Berlin Heidelberg.
3. Voyiadjis, G. Z. and **Faghihi, D.** (2013). The Effect of Temperature on Interfacial Gradient Plasticity in Metallic Thin Films. H. Altenbach and S. Kruch (eds.),

Advanced Materials Modelling for Structures, Advanced Structured Materials, 19, (pp. 337-349). Springer-Verlag Berlin Heidelberg.

4. Voyiadjis, G.Z. and **Faghihi, D.** (2012), Microstructural Characterization of Metals Using Nano-indentation. *Handbook of Micromechanics and Nanomechanics* (pp. 569-606). Pan Stanford Publication Co.

REFEREED
ARTICLES IN INT'L
JOURNALS

1. **Faghihi, D.**, Feng, X., Lima, E., Yankeelov, T., Oden, J. T., (in preparation). A Thermodynamical Consistent Coupled Theory for Diffusion-Interface and Deformations: Application to Tumor Growth and Treatment *Journal of the Mechanics and Physics of Solids*.
2. **Faghihi, D.**, Carey, V., Michoski, C., Hager, R., Janhunen, S., Chang, C. S., and Moser, R. D. (submitted). A Particle Resampling Method with Applications to Particle-in-Cell Simulations. *Journal of Computational Physics*.
3. **Faghihi, D.**, Sarkar, S., Naderi, M., Hackel, L., and Iyyer, N. (in press). A Probabilistic Design Method for Fatigue Life of Metallic Component. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems - Part B: Mechanical Engineering*.
4. Oden, J. T., **Faghihi, D.**, Lima, E., Almeida, R., Feng, Y., Fuentes, D., and Rylander, M. N. (2015). Toward Predictive Multiscale Modeling of Vascular Tumor Growth. *Archives of Computational Methods in Engineering*.
5. Oden, J. T., Farrell, K., **Faghihi, D.**, (2015). Estimation of Error in Observables in Coarse-Grained Models of Atomistic Systems. *Advanced Modeling and Simulation in Engineering Sciences*.
6. Farrell, K., Oden, J. T., **Faghihi, D.**, (2015). A Bayesian Framework for Adaptive Selection, Calibration, and Validation of Coarse-grained Models of Atomistic Systems. *Journal of Computational Physics*.
7. Prudencio, E. E., Bauman, P. T., Williams, S. V., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2014). Real-time Inference of Stochastic Damage in Composite Materials. *Composites Part B: Engineering*.
8. Prudencio, E. E., Bauman, P. T., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2014). A computational framework for dynamic data-driven material damage control, based on Bayesian inference and model selection. *International Journal for Numerical Methods in Engineering*.
9. Voyiadjis, G. Z. and **Faghihi, D.** (2014). Overview of Enhanced Continuum Theories for Thermal and Mechanical Responses of the Micro-systems in the Fast-Transient Process. *Journal of Engineering Materials and Technology*.
10. **Faghihi, D.**, and Voyiadjis, G. Z. and Zhang, Y., (2014). A Theory for Grain Boundaries with Strain-Gradient Plasticity. *International Journal of Solids and Structures*.
11. **Faghihi, D.**, and Voyiadjis, G. Z. (2014). A Thermodynamic Consistent Model for Coupled Strain-Gradient Plasticity with Temperature. *Journal of Engineering Materials and Technology*.

12. **Faghihi, D.**, Voyiadjis, G. Z., Park, T. (2013). Coupled Thermo-Mechanical Modeling of Small Volume FCC Metals. *Journal of Engineering Materials and Technology*.
13. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Thermo-Mechanical Strain Gradient Plasticity with Energetic and Dissipative Length Scales. *International Journal of Plasticity*.
14. **Faghihi, D.**; Voyiadjis, G. Z. (2012). Size Effects and Length Scales in Nano-Indentation for Body-Centered Cubic Materials with Application to Iron. Proceedings of the Institution of Mechanical Engineers, Part N: *Journal of Nanoengineering and Nanosystems*.
15. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Localization in Stainless Steel using Microstructural Based Viscoplastic Model. *International Journal of Impact Engineering*.
16. Voyiadjis, G. Z., Almasri, A. H., **Faghihi, D.**, and Palazotto, A. N. (2012). Analytical Solution for Shear Bands in Cold-Rolled 1018 Steel. *Journal of the Mechanical Behavior of Materials*.
17. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Gradient Plasticity for Thermo-Mechanical Processes in Metals with Length and Time Scales. *Philosophical Magazine*.
18. **Faghihi, D.**, and Voyiadjis, G. Z. (2012). Thermal and Mechanical Responses of BCC Metals to the Fast-Transient Process in Small Volumes. *Journal of Nanomechanics and Micromechanics*.
19. Voyiadjis, G. Z., and **Faghihi, D.** (2012); The Effect of Temperature on Interfacial Gradient Plasticity in Metallic Thin Films. *Journal of Surfaces and Interfaces of Materials*.
20. **Faghihi, D.**, and Voyiadjis, G. Z. (2011); Determination of Nano-indentation Size Effects and Variable Material Intrinsic Length Scale for body-centered cubic Metals. *Mechanics of Materials* 44: 189-211.
21. Voyiadjis, G. Z. and **Faghihi, D.** (2011). Variable (Intrinsic) Material Length Scale for Face-Centered Cubic Metals using Nano-Indentation. Proceedings of the Institution of Mechanical Engineers, Part: N *Journal of Nanoengineering and Nanosystems*.
22. Voyiadjis, G. Z., **Faghihi, D.**, and Zhang, C. (2011). Analytical and Experimental Determination of Rate and Temperature Dependent Length Scales using Nano-Indentation Experiments. *Journal of Nanomechanics and Micromechanics*.
23. Voyiadjis, G. Z., Deliktas, B., **Faghihi, D.**, and Lodygowski, A. (2010). Friction Coefficient Evaluation using Physically Based Viscoplasticity Model at the Contact Region During High Velocity Sliding. *Acta Mechanica*.

ARTICLES IN
CONFERENCE
PROCEEDINGS

1. Prudencio, E. E., Bauman, P. T., Williams, S. V., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2013). A Dynamic Data Driven Application System for Real-time Monitoring of Stochastic Damage. *Procedia Computer Science*.

2. Voyiadjis, G. Z., **Faghihi, D.**, and Alshibli, K. (2015). Finite Element Analysis of Integral Abutment Bridge Substructure in Louisiana. *94th Transportation Research Board Annual Meeting*.
3. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Microstructure to Macro-Scale Using Gradient Plasticity with Temperature and Rate Dependent Length Scale. *Procedia IUTAM*, 3, 205-227.
4. Voyiadjis, G. Z., and **Faghihi, D.**, (2012). Thermo-Mechanical Responses of Metals on Fast-Transient Process in Small Volume. *Proceedings of the International Congresses on Theoretical and Applied Mechanics (ICTAM)*.
5. Voyiadjis, G. Z., and **Faghihi, D.**, (2012). Coupled Viscoplastic Damage Model and Simulation for Metals and Composites. Plenary lecture in *Proceedings of International conference on Damage Mechanics (ICDM)*.

TECHNICAL REPORTS

1. Oden, J. T., Feng, Y., Rylander, M. N., Fuentes, D., Almeida, R., Lima, E., and **Faghihi, D.** (2015), Toward Predictive Multiscale Modeling of Vascular tumor Growth: Computational and Experimental Oncology for Tumor Prediction, ICES report 15-10, *Institute for Computational Engineering and Sciences, The University of Texas at Austin, Austin, TX*.
2. Bauman, P.T., **Faghihi, D.**, Oden, J. T., Prudencio E.E., Williams, S.V., and Ravi-Chandar (2013), Development of a Stochastic Dynamic Data-Driven System for Prediction of Material Damage, AFOSR report, *The Air Force Office of Scientific Research, Arlington, Va*.
3. Voyiadjis, G.Z., Cai, S., Alshibli, K., **Faghihi, D.** (2011), Integral Abutment Bridge for Louisiana's Soft and Stiff Soils: Caminda Bay Bridge, LTRC report, *Louisiana Transportation Research Center, Baton Rouge, LA*.

PRESENTATIONS IN CONFERENCES

1. **Faghihi, D.**, Farrell K., and Oden, J.T., Estimation of Error for Coarse-Grained Models of Atomic Systems *13th US National Congress on Computational Mechanics (USNCCM XIII): Symposium: Applications of Error Estimation and Model Adaptation in Computational Mechanics*. July 2015, San Diego, CA.
2. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., Real-Time Monitoring of Stochastic Damage in Composite Materials *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2014): Symposium: Damage and Failure of Composites*. November 2014, Montreal, QC, Canada
3. **Faghihi, D.**, Voyiadjis, G.Z., Thermo-Mechanical Responses of Metallic Thin Films on the Fast Transient Process. *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2014): Symposium: Modeling and experimental characterization for the behavior of the micro/nanostructured thin films*. November 2014, Montreal, QC, Canada
4. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., A Stochastic Framework for Material Damage Control in Composite Materials, Based on Bayesian Inference and Model Selection *American Society of Civil Engineering (ASCE), Engineering Mechanics Institute Conference (EMI 2014): Computational Methods and Application for Solid and Structural Mechanics*. August 2014, Hamilton, ON, Canada

5. **Faghihi, D.**, Voyiadjis, G.Z., Thermal and Mechanical Modeling of Micro-scale Materials Using Enhanced Continuum Theories. *American Society of Civil Engineering (ASCE), Engineering Mechanics Institute Conference (EMI 2014): Multi-scale Behaviour of Damage and Failure Mechanics*. August 2014, Hamilton, ON, Canada
6. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., Experimental and Computational Characterization of Damage in Composite Materials *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2013): Effect of Defects, Damage Tolerance, and Repair of Composites*. November 2013, San Diego, CA.
7. **Faghihi, D.**, Voyiadjis, G.Z., A Gradient-Enhanced Continuum Model for Size and Rate Effects in Thin Metal Film-Substrate Systems. *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2013): MEMS and MEMS packaging*. November 2013, San Diego, CA.
8. **Faghihi, D.** and Voyiadjis, G.Z., Thermo Mechanical Responses of Metals in Small Scale and Fast Transient Process. *Society of Engineering Science: 50th Annual Technical Meeting (SES 2013) and ASME-AMD Annual Summer Meeting*, July 2013, Brown University, Providence, RI.
9. **Faghihi, D.**, A Thermo-Mechanical Gradient Theory with Time and Length Scales. *Multiscale Modeling Group : Institute for Computational Engineering and Science (ICES), University of Texas at Austin*. April , 2013, Austin, TX.
10. **Faghihi, D.**, Microstructure to Macro-scale using Enhanced Continuum Theories. *Institute for Computational Engineering and Science (ICES), University of Texas at Austin*. January , 2013, Austin, TX.
11. **Faghihi, D.**, Voyiadjis, G.Z., Coupled Thermo-Mechanical Responses of Metals Crystal Structure using Strain Gradient Plasticity. *American Society of Mechanical Engineering (ASME): International Mechanical Engineering Congress and Exposition (IMECE 2012)*. November 2012, Houston, TX.
12. **Faghihi, D.**, Voyiadjis, G.Z., Multiscale Modeling of the Size and Interface Effects in Thin Metal Film-Substrate Systems in the Fast Transient Process. *American Society of Mechanical Engineering (ASME): International Mechanical Engineering Congress and Exposition (IMECE 2012)*. November 2012, Houston, TX.
13. **Faghihi, D.**, Voyiadjis, G.Z., Thermo – Mechanical Responses of Small Volume Metals on The Fast Transient Process. *Society of Engineering Science: 49th Annual Technical Meeting (SES 2012)*. October 2012, Georgia Tech, Atlanta, GA.
14. **Faghihi, D.**, Voyiadjis, G.Z., Strain Gradient Plasticity with Energetic and Dissipative Length Scales. *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012)*. June 2012, University of Notre Dame, South Bend, IN.

INVITED
LECTURES,
SEMINARS, AND
COLLOQUIA

1. **Faghihi, D.**, Oden, J.T., A Bayesian Framework for Adaptive Model Selection, Validation, and for Prediction in Presence of Uncertainties. *Department of Energy: ASCR Applied Mathematics Principal Investigators Meeting*. September, 2017, Rockville, MD.
2. **Faghihi, D.**, Colloquium, Predictive Computational Material Engineering. *ExxonMobil Research and Engineering Company, Corporate Strategic Research*. July, 2015, Annandale, NJ.
3. **Faghihi, D.**, Colloquium, Predictive Computational Material Modeling: Theories and Applications. *Department of Civil and Environmental Engineering, University of Southern California*. March, 2015, Los Angeles, CA.
4. **Faghihi, D.**, Colloquium, Predictive Computational Material Modeling: Theory, Computation, and Uncertainty Quantification. *Department of Mechanical Engineering, Mississippi State University*. March, 2015, MS.
5. **Faghihi, D.**, Colloquium, Predictive Computational Material Modeling: Theory, Computation, and Uncertainty Quantification. *Department of Civil and Environmental Engineering, Sharif University of Technology*. January, 2015, Tehran, IRAN.
6. **Faghihi, D.**, Colloquium, An Enhanced Continuum Theory for Thermo-Mechanical Responses of Micro-scale Materials. *Department of Civil and Environmental Engineering, Sharif University of Technology*. July, 2014, Tehran, IRAN.
7. **Faghihi, D.**, Colloquium, Micro-structure to Macro-scale using Enhanced Continuum Theories. *Civil Engineering Department, Michigan State University*. April, 2014, East Lansing, MI.
8. **Faghihi, D.**, Colloquium, Generalized Continuum Theories: bridge between micro and macro simulation *Mechanical Engineering Department, California State University, Los Angeles*. April, 2014, Los Angeles, LA.
9. **Faghihi, D.**, Colloquium, Micro-structure to Macro-scale using Enhanced Continuum Theories. *Mechanical Engineering Department, University of Massachusetts Dartmouth*. April, 2014, North Dartmouth, MA.
10. **Faghihi, D.**, Colloquium, Microstructure to Macro-scale using Enhanced Continuum Theories. *Civil Engineering Department, New Mexico State University*. November , 2013, Las Cruces, NM.
11. **Faghihi, D.**, Voyiadjis, G.Z., Thermo-Viscoplastic Deformation of Steel Alloys. *Graduate Student Research Conference, Louisiana Transportation Research Center (LTRC)*. April 2011, Baton Rouge, LA.
12. **Faghihi, D.**, Voyiadjis, G.Z., Characterization of Material Behavior from Microstructure to Macro-scale with Variable Length Scales. Technical topics series, *Department of Civil and Environmental Engineering, Louisiana State University*, January 2011, Baton Rouge, LA.

AWARDS

- Society of Engineering Science (SES) travel award 2013
SES 50th Annual Technical Meeting and ASME Summer Meeting,
Brown University, Providence, RI
- National Science Foundation (NSF) Summer Institute Fellowship 2013
U.S. National Science Foundation
Summer Institute on Nanomaterials, and Micro/Nanomanufacturing,
Northwestern University, Evanston, IL
- Student Awards — Louisiana State University, Graduate School
- Doctoral Dissertation Year Fellowship 2012–2013
 - School of Engineering nominee for Distinguished Dissertation Award 2013
 - Graduate School Enhancement Award 2008–2012

CONTRACTS AND GRANTS

- **Data-Enabled Multiscale Modeling of Nanopatterning of Copolymer Materials**
D. Faghihi(PI) and G. Willson(CoPI)
Submitted to: *National Science Foundation (CDS&E)*
- **A Stochastic Dynamic Data Driven System for Treating Cancer.**
D. Faghihi (PI), Mentors: Thomas Yankeelov, Tinsley Oden
Submitted to: *Mentored Quantitative Research Development Award
NIH/National Institute of Biomedical Imaging and Bioengineering*
- White Paper: **Adaptive Modeling of Stochastic Multiscale Material Systems: Bayesian Machine Learning to Accelerate Monte Carlo Methods** (multiscale, multiphysics, multifidelity modeling research area)
J. T. Oden (PI) and **D. Faghihi(PI)**
Submitted to: *DOE Applied Mathematics program*
- White Paper: **Selection and Validation of Predictive Multiscale Models: Application to Tumor Growth** (multiscale, multiphysics, multifidelity modeling research area)
J. T. Oden (PI) and **D. Faghihi(PI)**
Submitted to: *DOE Applied Mathematics program*
- o **Analytical Tool for Design and Repair of Engine Hardware for Robust High Cycle Fatigue Performance**
PI: Technical Data Analysis, Inc.
Sponsor: *Office of Naval Research – SBIR*

PROFESSIONAL SERVICE ACTIVITIES

- **Symposium Co-organizer** 2014
 - ASME 2014 International Mechanical Engineering Congress & Exposition
Area: Materials – Genetics to Structures
Symposium: *Modeling and experimental characterization for the behavior of the micro/nanostructured thin films*

- ASME 2014 International Mechanical Engineering Congress & Exposition
Symposium: *Damage and failure of composites*
- **Technical Committee Member** 2014-present
 - Committee on Computing in Applied Mechanics - *ASME*
 - Nanomechanics And Micromechanics Committee - *ASCE/Engineering Mechanics Institute (EMI)*
 - Modeling Inelasticity and Multiscale Behavior Committee - *ASCE/Engineering Mechanics Institute (EMI)*
- **Professional Peer Referee** 2013-present
 - International Journal of Plasticity (Elsevier)
 - International Journal of Mechanical Sciences (Elsevier)
 - International Journal of Materials & Design (Elsevier)
 - Journal of Nanomechanics and Micromechanics (ASCE)
 - Journal of Engineering Mechanics (ASCE)
 - Journal of Computer Methods in Applied Mechanics and Engineering (Elsevier)
 - International Journal of Fracture (Springer)
 - Robotics and Computer-Integrated Manufacturing (Elsevier)
 - Materials Science and Engineering A (Elsevier)
 - International Journal of Experimental and Computational Biomechanics
 - International Mechanical Engineering Congress & Exposition (ASME/IMECE)

REFERENCES

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