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Geometrically flexible and efficient numerical solution technique for Bragg edge neutron transmission strain tomography. (English) [Zbl 1478.78068](#)

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MSC:

- [78M10](#) Finite element, Galerkin and related methods applied to problems in optics and electromagnetic theory
- [78A45](#) Diffraction, scattering
- [78A46](#) Inverse problems (including inverse scattering) in optics and electromagnetic theory
- [78M22](#) Spectral, collocation and related methods applied to problems in optics and electromagnetic theory
- [82D75](#) Nuclear reactor theory; neutron transport

Keywords:

[neutron transmission tomography](#); [Bragg-edge transmission](#); [elastic strain](#); [longitudinal ray transform](#); [finite element method](#); [meshless method](#)

Full Text: [DOI](#)

References:

- [1] Aggarwal, R., Lamichhane, B., Meylan, M. and Wensrich, C., ‘A comparison of triangular and quadrilateral finite element meshes for Bragg edge neutron transmission strain tomography’, *ANZIAM J.*61 (2019), C242-C254.
- [2] Aggarwal, R., Lamichhane, B. P., Meylan, M. H. and Wensrich, C. M., ‘An investigation of radial basis function method for strain reconstruction by energy-resolved neutron imaging’, *Appl. Sci.*11(1) (2021), Article No. 391, 16 pages.
- [3] Aggarwal, R., Meylan, M., Lamichhane, B. and Wensrich, C., ‘Finite element approach to Bragg edge neutron strain tomography’, *ANZIAM J.*60 (2018), C279-C294.
- [4] Aggarwal, R., Meylan, M. H., Lamichhane, B. P. and Wensrich, C. M., ‘Energy resolved neutron imaging for strain reconstruction using the finite element method’, *J. Imaging*6(3) (2020), Article No. 13, 13 pages.

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