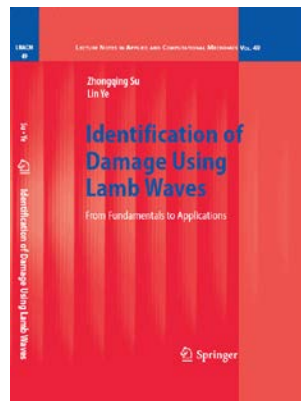


## ANNEX II: A List of Publications (in an ascending chronological order)

### Monographs:

1. Su, Z. and Ye, L. 2009. *Identification of Damage Using Lamb Waves: From Fundamentals to Applications*, London: Springer-Verlag GmbH & Co., ISBN: 978-1-84882-783-7 (hardcover), 978-1-4471-2674-4 (softcover), **346 pages**.



(book website: <http://www.springer.com/engineering/book/978-1-84882-783-7>;  
independent review of this book: A. DasGupta, 2003. Journal of Sound and Vibration, **332**:1153-1154)

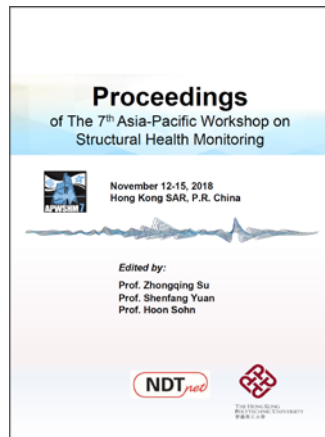
2. Su, Z. 2009. *Elastic Wave-based Damage Detection Using Active Sensor Network*, Saarbrücken: VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, ISBN: 978-3-639-04567-3, **186 pages**.



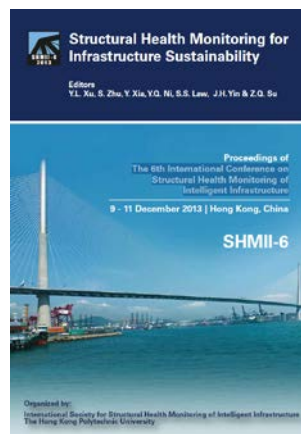
(book website: <https://www.morebooks.de/store/gb/book/elastic-wave-based-damage-detection-using-active-sensor-network/isbn/978-3-639-04567-3>)

## Edited Books and International Conference Proceedings:

3. Su, Z., Yuan, S. and Sohn, H. 2018. *Proceedings of the 7<sup>th</sup> Asia Pacific Workshop on Structural Health Monitoring* (APWSHM-2018), Bad Breisig: NDT.net, ISBN: 978-3-00-060359-4, 1241 pages.



4. Xu, Y., Zhu, S., Xia, Y., Ni, Y.Q., Law, S.S., Yin, J.H. and Su, Z. 2013. *Structural Health Monitoring for Infrastructure Sustainability - Proceedings of the 6<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure* (SHMII-6), Hong Kong: The Hong Kong Polytechnic University, ISBN: 978-962-367-768-4, 502 pages.



5. Law, S.S., Cheng, L., Xia, Y. and Su, Z. 2011. *Dynamics for Sustainable Engineering - Proceedings of the 14<sup>th</sup> Asia-Pacific Vibration Conference* (APVC2011), Hong Kong: The Hong Kong Polytechnic University, ISBN: 978-962-367-731-8 (Vol. 1), 978-962-367-732-5 (Vol. 2), 978-962-367-733-2 (Vol. 3) and 978-962-367-734-9 (Vol. 4), 2071 pages.

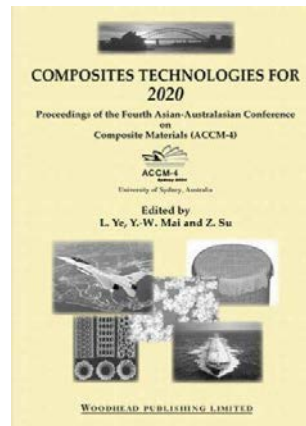


6. Lau, K.-T., Cheng, L., Su, Z. and Varadan, V.K. 2009. *Smart Composite Materials: Selected Papers from the International Conference on Multifunctional Materials and Structures (MFMS-08)* (Hong Kong, 28-31, July, 2008), in a special issue of *Smart Materials and Structures*, Vol: **18**.



(Book website: <http://iopscience.iop.org/0964-1726/18/7>)

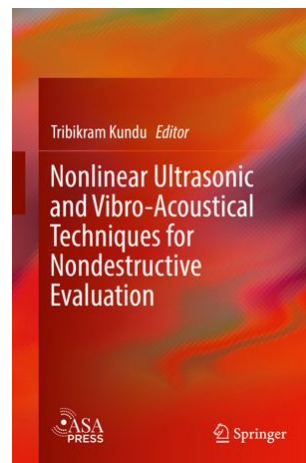
7. Ye, L., Mai, Y.-W. and Su, Z. 2004. *Composites Technologies for 2020 - Proceedings of the 4th Asian-Australasian Conference on Composite Materials*, Cambridge: Woodhead Publishing Ltd., ISBN: 1-85573-831-7, 1096 pages.



(book website: <http://www.woodheadpublishing.com/en/book.aspx?bookID=721>)

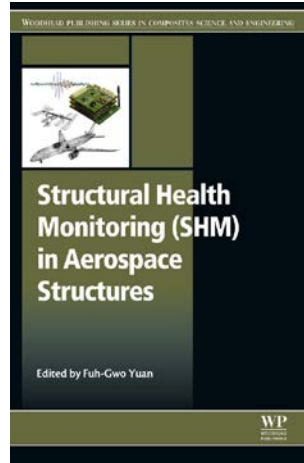
### **Book Chapters:**

8. Hong, M. and Su, Z. 2019. 'Characterizing fatigue cracks using active sensor networks', in *Nonlinear Ultrasonic and Vibro-Acoustical Techniques for Nondestructive Evaluation*, edited by Kundu, T., Cham: Springer Nature, ISBN: 978-3-319-94474-6, pp. 699-739.



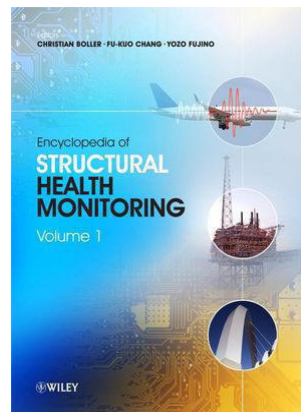
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9. Su, Z. and Hong, M. 2016. 'Nonlinear ultrasonics for health monitoring of aerospace structures using active sparse sensor networks', in *Structural Health Monitoring (SHM) in Aerospace Structures* (Woodhead Publishing Series in Composites Science and Engineering: Number 68), edited by Yuan, F.-G., Cambridge: Woodhead Publishing Ltd., ISBN: 978-0-08-100148-6, pp. 353-392.



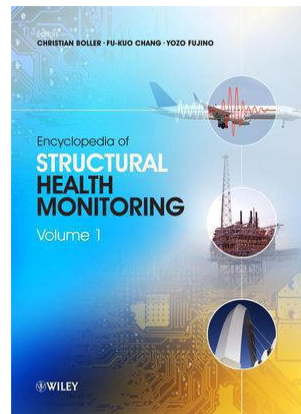
(book website: <https://www.elsevier.com/books/structural-health-monitoring-shm-in-aerospace-structures/unknown/978-0-08-100148-6>)

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11. Su, Z., Wang, X. and Ye, L. 2009. 'Data fusion of multiple signals from the sensor network', in *Encyclopedia of Structural Health Monitoring*, edited by Boller, C., Chang, F.-K. and Fujino, Y., Chichester: John Wiley & Sons, Inc. (U.K.), ISBN: 978-0-470-05822-0, pp. 697-708.



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12. Su, Z. and Ye, L. 2008. 'Lamb wave-based quantitative identification of delamination in composite laminates', in *Delamination Behaviour of Composites*, edited by Sridharan, S., Cambridge: Woodhead Publishing Ltd., ISBN: 9781845692445, pp. 169-216.



(book website: <https://www.elsevier.com/books/delamination-behaviour-of-composites/sridharan/978-1-84569-244-5>)

13. Su, Z. and Ye, L. 2005. 'Modelling structural damage using elastic wave-based techniques', in *Multi-scale Modelling of Composite Material Systems - the Art of Predictive Damage Modelling*, edited by Soutis, C. and Beaumont, P.W.R., Cambridge: Woodhead Publishing Ltd., ISBN: 9781855739369, pp. 430-468.



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### **Peer-reviewed Journal Papers and Editorials (\*: corresponding author):**

14. Yang, X., Wang, K., Xu, Y., Xu, L., Hu, W., Wang, H. and Su, Z.\* 'A reverse time migration-based multistep angular spectrum approach for ultrasonic imaging of specimens with irregular surfaces', *Ultrasonics* (in press).
15. Li, Y., Wang, K., Wang, Q., Yang, J., Zhou, P., Su, Y., Guo, S. and Su, Z.\* 'Acousto-ultrasonics-based health monitoring for nano-engineered composites using a dispersive graphene-networked sensing system', *Structural Health Monitoring: An International Journal* (in press).
16. Wang, K., Cao, W., Su, Z.\* , Wang, P., Zhang, X., Chen, L., Guan, R. and Lu, Y. 'Structural health monitoring of high-speed railway tracks using diffuse ultrasonic wave-based condition contrast: theory and validation', *Smart Structures and Systems* (in press).
17. Cao, W., Wang, K., Zhou, P., Yang, X., Xu, L., Liu, M., Fromme, P., Pang, B., Chi, R. and Su, Z.\* 'Nonlinear ultrasonic evaluation of disorderedly clustered pitting damage using an in-situ sensor network', *Structural Health Monitoring: An International Journal* (in press).
18. Wang, K., Liu, M., Cao, W., Yang, W., Su, Z. and Cui, F. 'Detection and sizing of disbond in multilayer bonded structure using modally selective guided wave', *Structural Health Monitoring: An International Journal* (in press).
19. Liao, Y., Zhou, P., Pan, D., Zhou, L.-M. and Su, Z.\* 'An ultra-thin printable nanocomposite sensor network for structural health monitoring', *Structural Health Monitoring: An International Journal* (in press).
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25. Wang, K., Cao, W., Liu, M., Li, Y., Zhou, P. and Su, Z.\* 2020. 'Advancing elastic wave imaging using thermal susceptibility of acoustic nonlinearity', *International Journal of Mechanical Sciences*, **175**:105509.
26. Xu, W., Su, Z., Liu, J., Cao, M. and Ostachowicz, W. 2020. 'Singular energy component for identification of initial delamination in CFRP laminates through piezoelectric actuation and non-contact measurement', *Smart Materials and Structures*, **29**:045001 (12pp).
27. Zhang, Z., Guo, S., Li, Q., Cui, F., Malcolm, A., Su, Z. and Liu, M. 2020. 'Ultrasonic detection and characterization of delamination and rich resin in thick composites with waviness', *Composites Science and Technology*, **189**:108016.
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