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High performance structures and materials VI (HPSM 2012). Proceedings of the 6th international conference on high performance structures and materials, Ashurst, New Forest, UK, June 19–21, 2012. (English) [\[Zbl 1270.74003\]](#)

WIT Transactions on the Built Environment 124. Southampton: WIT Press (ISBN 978-1-8456-4596-0/hbk; 978-1-8456-4597-7/ebook). 506 p. (2012).

Publisher's description: Containing the edited papers presented at the "sixth international conference on high performance structures and materials", this book addresses the issues involved with advanced types of structures, particularly those based on new concepts or new materials. Contributions will highlight the latest developments in design, optimisation, manufacturing, and experimentation in these areas.

The use of novel materials and new structural concepts nowadays is not restricted to highly technical areas like aerospace, aeronautical applications or the automotive industry, but affects all engineering fields including those such as civil engineering and architecture. Most high-performance structures require the development of a generation of new materials, which can more easily resist a range of external stimuli or react in a non-conventional manner.

The book covers such topics as: Emerging structural applications; Material characterisation; Composite materials and structures; Contact mechanics; High performance concretes; Steel structures; Natural fibre composites; Experiments and numerical analysis; Moderate span footbridges.

The articles of this volume will not be indexed individually. For the 4th conference see [\[Zbl 1138.74003\]](#).

MSC:

[74-06](#) Proceedings, conferences, collections, etc. pertaining to mechanics of deformable solids

[00B25](#) Proceedings of conferences of miscellaneous specific interest