

Architectural Conservation



Architectural conservation is a process that retains the authentic built form of old buildings through restoration. In doing so, it serves as an aid in the preservation of buildings. Restoration is also viewed as a viable alternative to new construction, since the former reduces construction waste and uses less energy. Architectural conservation is particularly impacted by two main aspects, cultural and historical. The cultural aspect involves the conservation of cultural heritage buildings in tandem with consideration of the local customs of an area. The historical aspect involves the conservation of well-known historical buildings and also considers changes made over time in building conservation, such as technological advancements and new materials. This list of reading materials has articles published over the past 13 years and aims to give insight into various topics.

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Please also forward to us titles that you would like to share with others in this list.

TOPICS

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Principles of Architectural Conservation

Books discussing architectural conservation which focus on the significance of this process in urban planning and development.

[Forsyth, M. \(2008\). *Understanding Historic Building Conservation*. Chichester: Wiley.](#)

[Jokilehto, J. \(2002\). *History of Architectural Conservation*. Burlington: Taylor & Francis.](#)

[Miele, C. \(2005\). *From William Morris : Building conservation and the arts and crafts cult of authenticity, 1877-1939*. New Haven, Connecticut: Yale University Press.](#)

Available in Library General Lending (NA109.G7 FRO).

[Rodwell, D. \(2007\). *Conservation and Sustainability in Historic Cities*. Chichester: John Wiley & Sons.](#)

[Rodwell, D. \(2010\). Urban Conservation in the 1960s and 1970s: A European Overview. *Architectural Heritage*, 21\(1\), 1-18.](#)

[Shacklock, V. \(2015\). *Architectural conservation* \(1st ed.\). New York: Routledge.](#)

[Stubbs, J. & Thomson, R. \(2016\). *Architectural conservation in Asia*. Routledge.](#)

[Watt, D. & Colston, B. \(2003\). *Conservation of historic buildings and their contents*. Shaftesbury, Dorset: Donhead.](#)

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Cultural Influences

How the local traditions, along with external cultural influences, work to affect what is accomplished by architectural conservation.

[Chen, X. \(2016\). Academic origins and characteristics of the Chinese stylistic restoration. *Frontiers Of Architectural Research*, 5\(3\), 353-359.](#)

[Gunay, Z. \(2010\). Conservation versus regeneration?: Case of European Capital of Culture 2010 Istanbul. *European Planning Studies*, 18\(8\), 1173-1186.](#)

[Khan, H. \(2015\). Architectural conservation as a Tool for cultural continuity: A focus on the built environment of Islam. *International Journal Of Islamic Architecture*, 9\(1\), 1-17.](#)

[Mcclintock, T. \(2014\). The conservation of Juanqinzhai : A prototype for architectural interiors in the Forbidden City. *Journal of the American Institute for Conservation*, 53\(2\), 116-139.](#)

[Munasinghe, H. \(2005\). The politics of the past: Constructing a national identity through heritage conservation. *International Journal Of Heritage Studies*, 11\(3\), 251-260.](#)

[Negussie, E. \(2004\). What is worth conserving in the urban environment? Temporal shifts in cultural attitudes towards the built heritage in Ireland. *Irish Geography*, 37\(2\), 202-222.](#)

[Tiwari, S. R. \(2016\). Material authenticity and conservation traditions in Nepal. In K. Weiler & N. Gutschow, *Authenticity in architectural heritage conservation: discourses, opinions, experiences in Europe, South and East Asia* \(1st ed., pp. 169-184\). Springer International Publishing.](#)

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Management

Elaborates on how oversight of architectural conservation at a high level, such as by governments, is carried out.

[Bose, S. \(2015\). State and management of architectural heritage in Kolkata. *Journal of Architectural Conservation*, 21\(3\), 178-194.](#)

[Cabbar, &, & Yazgan, E. \(2016\). State support policy concerning the conservation of traditional architectural heritage in Safranbolu, Turkey. *The Historic Environment: Policy & Practice*, 7\(2-3\), 202-212.](#)

[Conservation Guidelines. \(2011\). Urban Redevelopment Authority, Singapore. Retrieved from <https://www.ura.gov.sg/uol/uol/-/media/User Defined/URA Online/Guidelines/Conservation/Cons-Guidelines.pdf>](#)

[De Santoli, L. Historic buildings: Conservation, management and policy issues. Encyclopedia Life Support Systems. Retrieved from <http://www.eolss.net/sample-chapters/c15/E1-32-06-05.pdf>](#)

[Guidelines for the Management and Development of Architectural Conservation Areas. Cork Country Council Heritage Unit Planning Department. Retrieved from <http://www.corkcoco.ie/co/pdf/135423526.pdf>](#)

[Henderson, J. \(2008\). Managing urban ethnic heritage: Little India in Singapore. *International Journal Of Heritage Studies*, 14\(4\), 332-346.](#)

[Matthews, T. & Grant-Smith, D. \(2016\). Managing ensemble scale heritage conservation in the Shandon Architectural Conservation Area in Cork, Ireland. *Cities*.](#)

[Toniolo, L. , Boriani, M. , Guidi, G. \(2015\). *Built heritage: Monitoring conservation management \(Research for development\)*. Springer International Publishing.](#)

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Materials

Provides details on what materials are used in architectural conservation and explains the rationales for their use.

[Almerich, A., Fenollosa, E., & Martin, P. \(2016\). Reinforced lime concrete with FRP: An alternative in the restoration of architectural heritage. *Applied Mechanics And Materials*, 851, 751-756.](#)

[Feilden, B. \(2016\). Conservation of materials and practical applications of scientific research in restoration work. ICOMOS. Retrieved from <http://www.icomos.org/publications/ro18.pdf>](#)

[Ganobjak, M. & Kralova, E. \(2015, September 9-11\). Possibilities of aerogels application for architectural heritage conservation. Paper presented at CISBAT 2015, École polytechnique fédérale de Lausanne, Lausanne, Switzerland.](#)

[Geraldes, C., Lima, A., Delgado-Rodrigues, J., Mimoso, J., & Pereira, S. \(2016\). Geopolymers as potential repair material in tiles conservation. *Applied Physics A*, 122\(3\), 197-1-10.](#)

[Jester, T. \(2014\). *Twentieth-century building materials: History and Conservation*. Los Angeles: Getty Publications.](#)

[Pecchioni, E., Gómez Ubierna, M., Cagnini, A., Galeotti, M., Fratini, F., & Porcinai, S. \(2014\). Ancient and new repair mortars for conservation: Application to the case of San Leonardo Pulpit \(Florence, Italy\). *International Journal of Architectural Heritage*, 8\(4\), 556-580.](#)

[Ravi, R., Selvaraj, T., & Sekar, S. \(2015\). Characterization of hydraulic lime mortar containing *Opuntia ficus-indica* as a bio-admixture for restoration applications. *International Journal Of Architectural Heritage*, 10\(6\), 714-725.](#)

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Perceptions

Discusses how public perceptions and heritage values affect architectural conservation.

[Craggs, R., Geoghegan, H., & Neate, H. \(2016\). Managing enthusiasm: Between 'extremist' volunteers and 'rational' professional practices in architectural conservation. *Geoforum*, 74, 1-8.](#)

[Douglas-Jones, R., Hughes, J., Jones, S., & Yarrow, T. \(2016\). Science, value and material decay in the conservation of historic environments. *Journal Of Cultural Heritage*, 21, 823-833.](#)

[Yagci, S., & Mazlum, D. \(2015\). Traditional timber houses of Istanbul: Heritage values and preservation problems. *Journal of Architectural Conservation*, 21\(3\), 160-177.](#)

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Strategies

Discusses the various procedures by which architectural conservation is carried out.

[Acierno, M., Cursi, S., Simeone, D., & Fiorani, D. \(2016\). Architectural heritage knowledge modelling: An ontology-based framework for conservation process. *Journal Of Cultural Heritage*.](#)

[Built heritage conservation policy in Singapore. \(2008\). Legislative Council Secretariat. Retrieved from <http://www.legco.gov.hk/yr07-08/english/sec/library/0708in27-e.pdf>.](#)

[Najimi, A. \(2016\). Studies in vernacular architecture in Afghanistan: training in conservation of historic structures in Kabul Old City. *International Journal Of Environmental Studies*, 73\(4\), 512-523.](#)

[Rosado Correia, M., & Walliman, N. \(2014\). Defining criteria for intervention in earthen-built heritage conservation. *International Journal of Architectural Heritage*, 8\(4\), 581-601.](#)

[Sayed, H. \(2013\). Geomechanical investigations for architectural heritage preservation. The Habib Sakakini Palace in Cairo, Egypt. *International Journal of Conservation Science*, 4\(1\), 43-52.](#)

[Selia, J. \(2013\). Exploring conservation and development strategies for architectural heritage : A case study from Paris Hotel in Kaiping, Guangdong. *Applied Mechanics and Materials*, 291-294, 960-965.](#)

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Sustainability

Ensures that architectural conservation is carried out in such a way as to be environmentally friendly

[Pankhurst, C., & Harris, A. \(2013\). Conservation and innovation – The challenge of 'Eco' renovation in heritage buildings. *Journal of Architectural Conservation*, 19\(1\), 18-34.](#)

[Uysal, M. & Özcan, K. \(2016\). Sustainable conservation of vernacular heritage domed houses in Karaköy \(Şanlıurfa, Suruç\), Turkey. *Online Journal Of Art And Design*, 4\(1\), 1-6.](#)

[Watt, D. \(2016\). Sustainable building conservation: Theory and practice of responsive design in the heritage environment. *Journal of Architectural Conservation*, 22\(2\), 169-170.](#)

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Techniques

Elaborates on technical methods employed in the process of architectural conservation.

[Barnard, H., Wendrich, W., Winkels, A., Bos, J., Simpson, B., & Cappers, R. \(2016\). The preservation of exposed mudbrick architecture in Karanis \(Kom Aushim\), Egypt. *Journal Of Field Archaeology*, 41\(1\), 84-100.](#)

[Erba, S., Daniotti, B., Rosina, E., Sansonetti, A., & Paolini, R. \(2016\). Evaluation of moisture transfer to improve the conservation of tiles finishing facades. In J. Delgado, *Recent developments in building diagnosis techniques* \(pp. 171-194\). Singapore: Springer Singapore.](#)

[Otoni, F., & Blasi, C. \(2016\). Hooping as an ancient remedy for conservation of large masonry domes. *International Journal of Architectural Heritage*, 10\(2-3\), 164-181.](#)

[Praptidita S. & Denny. \(2015\). Value-based architectural conservation practice as an alternative solution to sustainability problems. *Applied Mechanics and Materials*, 747, 80-83.](#)

[Soler-Estrela, A. & Soler-Verdú, R. \(2015\). Restoration techniques applied to tile dome conservation in the Western Mediterranean. Valencia, Spain. *International Journal Of Architectural Heritage*, 10\(5\), 570-588.](#)

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Technology

Technological developments in the field of architectural conservation, particularly modelling

[Apollonio, F., Gaiani, M., & Sun, Z. \(2016\). A reality integrated BIM for architectural heritage conservation. In A. Ippolito, *Handbook of research on emerging technologies for architectural and archaeological Heritage* \(pp. 31-65\). Hershey: IGI Global.](#)

[Muñoz, F., Peña, F., & Meza, M. \(2014\). Virtual reality models for the structural assessment of architectural heritage buildings. *International Journal of Architectural Heritage*, 8\(6\), 783-794.](#)

[Pinto Puerto, F., & Guerrero Vega, J. \(2015\). Digital models applied to the intervention of the architectural heritage: Restoration Southeast closing of the door of San Cristobal Cathedral of Seville. *Virtual Archaeology Review*, 6\(12\), 103-108.](#)

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