

# On the application of cast and wrought iron to building purposes.

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## On the application of cast and wrought iron to building purposes (1973 edition)

It is an ideal material for sand casting into complex shapes such as exhaust manifolds without the need for extensive further machining.

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In the United States, James Bogardus 1800-1874 is the self-described originator and patent-holder for cast-iron buildings, including 85 Leonard Street and 254 Canal Street both in New York City. Preservation of this architectural detail has been addressed in Preservation Brief 27, National Park Service, U. Uses of Cast Iron — Application Gray cast iron have also an excellent damping capacity, which is given by the graphite because it absorbs the energy and converts it into heat.

## What is cast iron, its process, properties and applications

Typical applications for this material include valves, pump bodies, crankshafts, gears, and other automotive and machine components because of its good machinability, fatigue strength, and higher modulus of elasticity compared to gray iron, and in heavy-duty gears because of its high yield strength and wear resistance. In the course of my experience I have seen no reason to change the opinions I had previously expressed on the uncertain character of trussed girders, and I still advise the exercise of great caution in their employment, from the conviction that they are equally unsound in principle and dangerous in practice. A fracture surface of this alloy has a white appearance, and thus it is termed white cast iron.

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The use of steel frames in commercial buildings allowed a more open floor plan design, with space to accommodate larger windows suitable for commerce.

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