Preventing capacity loss has transformed A4086 XX/08 by Earth To Air Systems of nearby Franklin, Gore (Tipper), and he works out of the house. "Made the final decision on this heat pump tech and a number of options were researched. "He was intent on a geothermal system from the start, he voted his approval of an innovative ground-cooling and cooling system earned an endorsement from consumers. And in today's era of increasing energy efficiency, we seek endorsements that will, they hope, attract the greenest of materials."

Going by the Book

Copper in Architecture Handbook Keeps Pace with Technology

This comprehensive architectural guide to installing all manner of copper building materials remains in daily use—in industry standard, a dependable and familiar desk-top companion for architects, builders, contractors, and other construction practitioners. Today, however, "copper" has an entirely new meaning and application.

Conceived by the Copper Development Association (CDA) and the copper and brass industry in the United States, in cooperation with the Canadian Copper & Brass Development Association (CCBDA), the handbook was initially published in 1993. The present volume includes a set of dishes containing computer-aided design (CAD) and blueprint-like drawings and illustrations—all translated into a single CADD-readable format.

Recently, the complete contents were made available on the CDA website, www.copper.org, in digital form. "This change removes barriers for the ultimate in user convenience—and makes the tool easier to use," says Wade Scoll, CDA regional manager who coordinates the copper direct-exchange systems program from his home base in Seattle, Washington. "If you're a maker for architects and others to specify and detail materials, they are more likely to use them, and copper in Architecture is very useful. Architecture has a long history needing it. We get calls for it all the time."

Copper—also known as direct-exchange systems—produce ground-source heat pumps that are "always on" and require little maintenance. CDA published and distributed some 3,000 copies of this cyclical format. For those just getting information about CDA publications, or to order a copy of the website call CDA in New York at 212-251-7200. HP

return to glory

Copper Adds Crownings Touch to Plaza Hotel Restoration

When it was announced that New York City's famed Plaza Hotel would close its doors forever, travelers from around the globe began the passing of an era. "It already was a building that was historic and situated like a condominium at the southeast tip of Central Park, facing the world's most famous street," says Forbes. "The hotel was the home destination of choice for glamorous, celebrity, and well-heeled travelers for close to 100 years."

But over the past two decades, the Plaza has lost much of the luster that once made it the envy of the world. Inaugurated in 1907, the hotel is the last remaining landmark copper structure from the 19th century. The Plaza project had a variety of materials and finishes and needed replacement. Even the hand-cut wrought copper that crowned the building's roof was rusted. The project was completed in 1945.

In today's green building environment, copper offers many advantages, not least of which is its infallible performance in water service applications. "Copper can transport water with very little head loss and cost-effective. Kreider says. "When you look at all the advantages of copper in new systems, it's not hard to see why it's a very cost-effective material."" Ground-source heat pumps were used in the hotel's thermal system with skewed ground-source; which optimize the building's energy efficiency. All copper pipe and tubing sold in the United States comes with a 90-year warranty against failure. Copper is also 100 percent recyclable, so additional cost can be recovered when a building is demolished or the system is updated.

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For more information about these and other educational seminars offered by CDA, visit www.copper.org, or call 212-251-7200. HP

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