



Concrete-filled Tubular Members and Connections

By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu

Download now

Read Online ➔

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu

Using steel and concrete together utilizes the beneficial material properties of both elements. Concrete filled steel tubes represent a good example of a concrete – steel composite structure, and are particularly useful as columns in high rise buildings and bridge piers. They can be used in a range of fields, from civil and industrial construction through to the mining industry.

Several aspects of concrete filled tubes have received little coverage in existing design standards, design guides or relevant books, but are addressed here: construction methods or quality and their effect on performance, confinement, creep effects, pre-load effects, size effects, seismic behaviour and post-fire behaviour, worked examples under practical conditions, numerical simulations, mechanics models, concrete-filled double skin tubes, SCC(self-consolidating concrete)-filled tubes, HPHSC (high performance high strength concrete)-filled tubes, high strength steel and thin-walled tubes filled with concrete, and fiber reinforced polymer strengthening of concrete filled tubes.

This book not only summarizes the research performed to date on concrete-filled tubular members and connections but also compares the design rules in various standards (Eurocode 4, AISI-LRFD, ACI, AIJ and Chinese Standard), and provides design examples. An invaluable guide for professionals and a detailed source of information for graduate students and beyond.

↓ [Download Concrete-filled Tubular Members and Connections ...pdf](#)

📖 [Read Online Concrete-filled Tubular Members and Connections ...pdf](#)

Concrete-filled Tubular Members and Connections

By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu

Using steel and concrete together utilizes the beneficial material properties of both elements. Concrete filled steel tubes represent a good example of a concrete – steel composite structure, and are particularly useful as columns in high rise buildings and bridge piers. They can be used in a range of fields, from civil and industrial construction through to the mining industry.

Several aspects of concrete filled tubes have received little coverage in existing design standards, design guides or relevant books, but are addressed here: construction methods or quality and their effect on performance, confinement, creep effects, pre-load effects, size effects, seismic behaviour and post-fire behaviour, worked examples under practical conditions, numerical simulations, mechanics models, concrete-filled double skin tubes, SCC(self-consolidating concrete)-filled tubes, HPHSC (high performance high strength concrete)-filled tubes, high strength steel and thin-walled tubes filled with concrete, and fiber reinforced polymer strengthening of concrete filled tubes.

This book not only summarizes the research performed to date on concrete-filled tubular members and connections but also compares the design rules in various standards (Eurocode 4, AISI-LRFD, ACI, AIJ and Chinese Standard), and provides design examples. An invaluable guide for professionals and a detailed source of information for graduate students and beyond.

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu
Bibliography

- Rank: #5150889 in Books
- Brand: Brand: CRC Press
- Published on: 2010-08-27
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .69" w x 6.14" l, 1.33 pounds
- Binding: Hardcover
- 304 pages

 [Download Concrete-filled Tubular Members and Connections ...pdf](#)

 [Read Online Concrete-filled Tubular Members and Connections ...pdf](#)

Download and Read Free Online Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu

Editorial Review

About the Author

Xiao-Ling Zhao is Head of Civil Engineering at Monash University, Australia and Chairman of IIW (International Institute of Welding) Subcommittee XV-E on "Tubular Structures".

Lin-Hai Han is Professor of Structural Engineering at Tsinghua University, China. He is Vice-President of the China Society of Fire Protection on Steel Construction and Vice-President of the China Society on Steel-Concrete Composite Construction.

Hui Lu is a bridge engineer at Pitt & Sherry Pty Ltd, Melbourne, Australia and holds a PhD in civil engineering.

Users Review

From reader reviews:

Kenneth Hand:

Do you have favorite book? In case you have, what is your favorite's book? Publication is very important thing for us to understand everything in the world. Each reserve has different aim or even goal; it means that reserve has different type. Some people experience enjoy to spend their time and energy to read a book. They can be reading whatever they have because their hobby will be reading a book. Consider the person who don't like reading through a book? Sometime, individual feel need book after they found difficult problem or even exercise. Well, probably you should have this Concrete-filled Tubular Members and Connections.

Dave Thomas:

Have you spare time for a day? What do you do when you have a lot more or little spare time? Yep, you can choose the suitable activity to get spend your time. Any person spent their own spare time to take a wander, shopping, or went to the actual Mall. How about open or maybe read a book eligible Concrete-filled Tubular Members and Connections? Maybe it is for being best activity for you. You already know beside you can spend your time with the favorite's book, you can wiser than before. Do you agree with their opinion or you have various other opinion?

Richard Ybarra:

Playing with family in the park, coming to see the ocean world or hanging out with good friends is thing that usually you might have done when you have spare time, then why you don't try point that really opposite from that. Just one activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Concrete-filled Tubular Members and Connections, you could enjoy both. It is very good combination right, you still want to miss it? What kind of

hang type is it? Oh can occur its mind hangout fellas. What? Still don't understand it, oh come on its referred to as reading friends.

Jerry Gunnell:

As a student exactly feel bored to reading. If their teacher questioned them to go to the library or to make summary for some reserve, they are complained. Just tiny students that has reading's heart or real their hobby. They just do what the instructor want, like asked to the library. They go to presently there but nothing reading seriously. Any students feel that looking at is not important, boring in addition to can't see colorful photos on there. Yeah, it is to get complicated. Book is very important for you. As we know that on this age, many ways to get whatever we really wish for. Likewise word says, ways to reach Chinese's country. Therefore , this Concrete-filled Tubular Members and Connections can make you sense more interested to read.

**Download and Read Online Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu
#RPOD6FJH5MW**

Read Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu for online ebook

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu books to read online.

Online Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu ebook PDF download

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu Doc

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu Mobipocket

Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu EPub

RPOD6FJH5MW: Concrete-filled Tubular Members and Connections By Xiao-Ling Zhao, Lin-Hai Han, Hui Lu