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筒形建筑物拆除爆破折叠方案参数的研究

史秀志, 宋光明, 江文明, 周治国, 黎建华, 陈寿如

(中南大学资源环境与建筑工程学院,湖南长沙 410083)

要: 高耸筒形建筑物一般处于建筑群或人口稠密区, 周围环境极其复杂, 拆除它们所需空间非常有限. 为解决筒形建筑物在倒塌空间严重不足时的 控制爆破拆除问题,作者应用简体偏心受压的力学理论,系统地探讨了简形建筑物在倒塌空间不足,须采用折叠爆破拆除时各段简体的运动规律,并在此基 础上得出了折叠爆破切口长度、高度、形状及上、下段折叠筒体延迟时间等爆破参数的计算公式及其工程应用原则,实践结果表明,这些计算公式简单、 实用,对筒形建筑物折叠爆破拆除工程,具有重要的指导意义.

关键字: 折叠控制爆破; 筒形建筑物; 参数

Demolition parameters of tube-shaped structure using folding control blasting method

SHI Xiu-zhi, SONG Guang-ming, JIANGWen-ming, ZHOUZhi-guo, LI Jian-hua, CHEN Shou-ru

(College of Resources, Environment and Civil Engineering, Central South University, Changsha 410083, China)

Abstract: In most cases, high tube-shape structures are built among buildings and there are many people living nearby. The surroundings of these structures are very complicated and the areas needed for the demolition of the structures are greatly limited. To solve the problem of the demolition of the structures using control blasting under these conditions, the authors present a newmethod named folding control blasting to demolish the tube-shaped structure. Bymechanical analysis, the authors give collapsing mechanism of the tube-shaped structures and the calculation method of all the blasting parameters such as the demolishing length, the height, the form and the time delay. Two folding control blasting examples showed that the calculation method is very practical. It will find many applications in the same kind of demolition work.

Key words: folding control blasting; tube-shaped structure; parameters

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地 址:湖南省长沙市中南大学 邮编: 410083

电 话: 0731-88879765 传真: 0731-88877727

电子邮箱: zngdxb@mail.csu.edu.cn 湘ICP备09001153号