

<<2004恒隆数学奖获奖论文集>>

图书基本信息

书名：<<2004恒隆数学奖获奖论文集>>

13位ISBN编号：9787535774910

10位ISBN编号：7535774911

出版时间：2012-12

出版时间：湖南科技出版社

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页数：134

字数：178000

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### 内容概要

区国强、吴恭孚、丘成桐主编的《2004恒隆数学奖获奖论文集》集结了2006年“恒隆数学奖”的获奖论文及数学家的精辟点评。

《2004恒隆数学奖获奖论文集》每篇论文都是得奖者自定的数学专题之研习结果，参赛学生经过一年多的努力，得以训练多元智能和创意思考能力，并活学活用数学知识，摆脱传统死读书的学习模式，从中取得考试外的满足感和喜悦感，借以领略数学的美。

每两年一届的“恒隆数学奖”由恒隆地产和香港中文大学数学系主办，乃为香港中学生而设的数学研究比赛。

由恒隆地产有限公司董事长陈启宗先生和世界杰出数学家、1982年费尔兹奖及2010年沃尔夫奖得主丘成桐教授于

2004年创立，目的是鼓励中学生尽量发挥数理创意，激发他们对数学及科学的求知热情。

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by Professor Shing-Tung Yau and Mr.Ronnie C.Chan

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## 章节摘录

版权页：插图：“I will try to explain it in more detail. Here, in the attempt to marry, two seemingly antagonistic elements in my relations with you unite more intensely than anywhere else. Marriage certainly is the pledge of the most acute form of self-liberation and independence. I would have a family, in my opinion the highest one can achieve, and so too the highest you have achieved; I would be your equal; all old and even new shame and tyranny would be mere history. It would be like a fairy tale, but precisely there lies the questionable element. It is too much; so much cannot be achieved. It is as if a person were a prisoner, and he had not only the intention to escape, which would perhaps be attainable, but also, and indeed simultaneously, the intention to rebuild the prison as a pleasure dome for himself. But if he escapes, he cannot rebuild, and if he rebuilds, he cannot escape. If I, in the particular unhappy relationship in which I stand to you, want to become independent, I must do something that will have, if possible, no connection with you at all; though marrying is the greatest thing of all and provides the most honorable independence, it also stands at the same time in the closest relation to you. To try to get out of this quandary has therefore a touch of madness about it, and every attempt is punished by being driven almost mad.” It seems that, to a large extent, Franz would still cancel his engagement even his father didn't oppose to it. “This very comparison proves that I certainly do not mean to say that you drove me away from marriage by your example, as you had driven me away from your business. [5]” From this evidence we can see that their relationship is still tense. That is,  $A(t)$  approaches zero at a very slow speed at  $t=20$ . This, together with the preceding on the analysis on  $A(19)$ , convinces us that  $A(19) = 0$ .

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《2004恒隆数学奖获奖论文集》不仅可供中学生阅读，亦可供数学教师和数学爱好者阅读参考。

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