Frontiers in
**Mathematical Analysis and
Numerical Methods**

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editor

Li Tatsien

Fudan University, China

Frontiers in
**Mathematical Analysis and
Numerical Methods**

In Memory of Jacques-Louis Lions

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In Memory of Jacques-Louis Lions

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(J.-P. MARTIN)

Mention obligatoire

Taken at the Institut de France in Paris on May 29, 2000.

From left to right: A. Damlamian, R. Snor, Li Tatsien, J.-L. Lions, P. G. Ciarlet, F. Dubois.

PREFACE

About three years has passed away since the famous mathematician, a member of the Académie des Sciences de Paris, an oversea Member of the Chinese Academy of Sciences, Professor J.-L. Lions' death. As an outstanding mathematician, he made notable pioneer contributions to many fields of applied mathematics and enjoyed a worldwide high prestige and reputation. He held a series of high-level posts such as President of the IMU (International Mathematical Union), President of the Académie des Sciences de Paris. He played an important role and had a considerable influence in the international community of mathematics. The Journal *Chinese Annals of Mathematics* published a special issue (Vol. 23, Ser.B, No.2, 2002) dedicated to the memory of Professor J.-L. Lions, carrying papers contributed by his friends, students and colleagues. Afterwards the next several issues of the journal also published some papers of its kind. These papers involve many branches of mathematics and are of high quality and worth preserving. Here we collect them into a volume and offer it to the readers. Meanwhile a short essay of mine in memory of Professor J.-L. Lions is added as a supplement to the article of Professor P. G. Ciarlet, which is a brief account of Professor J.-L. Lions' life and achievements.

I would like to express my thanks to the faculty of the Editorial Office of *Chinese Annals of Mathematics*, especially to Professor Cai Zhijie and Professor Xue Mi, for their assistance in editing this book.

February 2004

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