

Preface

Rolling equipment and technologies are central to the modern metal rolling industry for various products of plates, sheets, strips, bars and wires. Nowadays, the metal rolling industry is faced with the challenge of the scarcity of resources and energy. To improve the traditional rolling equipment structures and to achieve high-speed, large-scale, large quantities of clean rolling productions and to develop new technologies of rolling equipment, have become the main task to researchers, engineers and manufacturers.

This book is a collection of the latest advancement and application of advanced rolling equipment and technologies. The articles included are peer-reviewed, covering a broad range of topics: advanced rolling process, equipments and technologies of the strip and plate; special rolling equipments and technologies; advanced shearing and straightening equipments and technologies; advanced testing instruments of rolling, shearing, levelling processes and rolled metal quality; advanced automatic control technologies on rolling, shearing and levelling processes; mathematical model and numerical simulation of rolling, shearing and levelling processes; assembly and maintenance of rolling equipment.

The editors hope that this book would be a useful reference for the professionals in the field of rolling equipment and technologies, who wish to advance rolling equipment and make progress of rolling technologies.

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