Rubber tree (Hevea brasiliensis Muell. Arg.), which originated in South America Amazon River basin, is a typical tropical rainforest plant in favor of environment with high temperature and humidity. Since its introduction to China, rubber tree could grow and develop normally. However, these areas were in the tropical northern margin (Northern latitude 18-24 degree). Rubber tree frequently subjected to chilling injury. After 60 years of practice, unique and effective measurements were development in the cold planting cultivation of rubber trees in China. This book features as provide detail knowledge of chilling types and damage on rubber tree. The useful cultivation measurements and important chilling tolerant clones were showed. Furthermore, rubber clone seedlings with differential chilling tolerant abilities were subjected to artificial chilling treatment for measurement of its physiological indicators specific to antioxidant systems. This book provided a theoretical and practical basis for rubber clone breeding programme for chilling tolerance.