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**Sinopsis**

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This new book presents current research in the study of wind tunnels, including the design, execution and numerical rebuilding of a plasma wind tunnel with the aim to analyze shock wave boundary layer interaction phenomena; the Mainz vertical wind tunnel facility experimenting on cloud physics and chemistry; an air-conditioned wind tunnel environment for the study of mass and heat flux; using wind tunnel studies to evaluate the drag coefficient of the tree crown and Pre-X aerodynamic/aerothermal characterization through computational fluid dynamics and wind tunnels.