

烟雾机雾滴沉积分布的空间解析 Spatial Analysis of Droplets Deposition Distribution

邱白晶 张振磊 汤伯敏 赵晓丽 李成泉

江苏大学

关键词: 烟雾机 雾滴 沉积分布 空间解析

摘要: 提出了一种雾滴沉积分布的空间解析方法, 并利用该方法对棚室内常温烟雾机雾滴的当量直径、覆盖率和沉积密度等参数进行了分析研究。试验结果表明: 雾滴当量直径和覆盖率在棚室的两侧大, 中轴线小, 而沉积密度正好相反; 雾滴当量直径和覆盖率在距棚室入口25m处的两侧皆出现峰值, 沉积密度在棚室中轴线上距入口13、35和52m处出现峰值。表明采用空间解析方法比单曲线分析方法更能反映雾滴在棚室内沉积分布的状况。 A new method for spatial analysis of droplet deposition was presented, by which the parameters of spraying deposition in greenhouse were analyzed, including droplets equivalent diameter, spraying coverage and droplets density. The experimental results showed that the droplets equivalent diameter and spraying coverage is larger in both sides than central axis of the greenhouse, while droplets density is opposite. The peak value of droplets equivalent diameter and spraying coverage respectively appears in both sides of the greenhouse 25m away from entrance, and three peak values of droplets density occur in central axis of the greenhouse with the distance of 13, 35 and 52m from entrance, respectively. The results also indicated that the method of spatial analysis can more objectively reflect the droplets deposition distribution in greenhouse by contrast to simple curve analysis.

[查看全文 \(请使用Adobe Acrobat 6.0版本浏览\)](#) [返回首页](#) [引用本文](#)