

风筛式清选装置筛面气流场试验 Experiment on the Flow Field of the Air-and-screen Cleaning Device

李耀明 唐忠 李洪昌 赵湛 徐立章

江苏大学

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摘要: 在DFQX-3型物料清选仿真试验台上,通过空间布点测量了筛面不同位置的气流速度。根据测量值得出筛面上流速小于或等于4.81 m/s,属低速气流。利用Matlab绘制了筛面不同位置的横断面、纵断面、水平面的等速线和速度变化曲线,分析了风筛式清选装置的筛面气流场速度分布规律。试验表明,筛面两侧的流速对称分布,前后两端流速较接近,中间流速变化复杂。 At the simulation platform of DFQX-3 air-and-screen cleaning device, the velocity of flow at different positions of the vibration sieve surface was measured through the space-points. With the measurement, the velocity of flow in the surface is less than 4.81m/s which is low-speed airflow. We used Matlab to plot the isovel and velocity variation curve of the cross section, vertical section and horizontal section at different positions in the screen surface, and then analyzed the distribution rules of the velocity of flow on the screen surface of the air-and-screen cleaning device. The result shows that the velocity of flow is symmetric on both sides of the screen surface, and is close at both ends while complex in the middle.

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