

Particle statistics

In a famous series of calculations published in Klug and Alexander it was calculated that IF a powder was crushed to 1 micron in size, the amount of powder in a large cavity mount, would be barely sufficient to achieve 1% reproducibility in intensity.

This calculation assumed a single point detector having a small detection volume which in this example, at 1 micron, would detect 38,000 out of 38 billion particles in the sampling volume. Notice the dramatic increase in available particles as the size is decreased.

How many particles do you need for 1% accuracy in intensity

| | <u>40μm</u> | <u>10μm</u> | <u>1μm</u> |
|-------------------------|-------------|-------------|------------|
| # diffraction particles | 12 | 760 | 38000 |

To achieve 1% accuracy

$$\sigma = \sqrt{n}/n$$

$$\text{Std. err.} = 2.3 \sigma < 1\%$$

$$n > 52,900 \leftarrow$$



Small Particle Statistics An Account Of

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Table of Contents Small Particle Statistics An Account Of

1. Understanding the eBook Small Particle Statistics An Account Of
 - The Rise of Digital Reading Small Particle Statistics An Account Of
 - Advantages of eBooks Over Traditional Books
2. Identifying Small Particle Statistics An Account Of
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Small Particle Statistics An Account Of
 - User-Friendly Interface
4. Exploring eBook Recommendations from Small Particle Statistics An Account Of
 - Personalized Recommendations
 - Small Particle Statistics An Account Of User Reviews and Ratings
 - Small Particle Statistics An Account Of and Bestseller Lists
5. Accessing Small Particle Statistics An Account Of Free and Paid eBooks

- Small Particle Statistics An Account Of Public Domain eBooks
- Small Particle Statistics An Account Of eBook Subscription Services
- Small Particle Statistics An Account Of Budget-Friendly Options
- 6. Navigating Small Particle Statistics An Account Of eBook Formats
 - ePub, PDF, MOBI, and More
 - Small Particle Statistics An Account Of Compatibility with Devices
 - Small Particle Statistics An Account Of Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Small Particle Statistics An Account Of
 - Highlighting and Note-Taking Small Particle Statistics An Account Of
 - Interactive Elements Small Particle Statistics An Account Of
- 8. Staying Engaged with Small Particle Statistics An Account Of
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Small Particle Statistics An Account Of
- 9. Balancing eBooks and Physical Books Small Particle Statistics An Account Of
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Small Particle Statistics An Account Of
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Small Particle Statistics An Account Of
 - Setting Reading Goals Small Particle Statistics An Account Of
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Small Particle Statistics An Account Of
 - Fact-Checking eBook Content of Small Particle Statistics An Account Of
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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