



Aeolian Dust and Dust Deposits

Kenneth Pye

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Aeolian Dust and Dust Deposits explores the entrainment, dispersion, and deposition of aeolian dust and dust deposits, with emphasis on transport and deposition of dust derived by deflation of surface sediments and soils. Topics covered range from the mechanisms of fine-particle formation to dust sources, sinks, and rates of deposition. Dust-transporting wind systems are also discussed, along with the grain size, mineralogy, and chemical composition of aeolian dust.

Comprised of nine chapters, this book begins with an overview of the general nature and significance of windborne dust as well as the importance of aeolian dust and loess. The next chapter deals with the mechanisms underlying the formation of fine particles, including glacial grinding, frost and salt weathering, and fluvial comminution. The reader is then introduced to dust entrainment, transport, and deposition, together with dust sources, sinks, and rates of deposition. Subsequent chapters focus on the implications of dust deflation, transport, and deposition; dust deposition in the oceans; and loess distribution and the thickness and morphology of loess deposits.

This monograph is written primarily for research workers and advanced students in sedimentology, geomorphology, and Quaternary studies, but is also likely to be of value to soil scientists, meteorologists, planetary geologists, engineers, and others concerned with environmental management.

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