



## Elementary Geometry (Oxford Science Publications Physics; 85; Oxford Science Pubn)

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The geometry of two and three dimensional space has long been studied for its own sake, but its results also underlie modern developments in fields as diverse as linear algebra, quantum physics, and number theory. This text is a careful introduction to Euclidean geometry that emphasizes its connections with other subjects. Glimpses of more advanced topics in pure mathematics are balanced by a straightforward treatment of the geometry needed for mechanics and classical applied mathematics. The exposition is based on vector methods; an introductory chapter relates these methods to the more classical axiomatic approach. The text is suitable for undergraduate courses in geometry and will be useful supplementary reading for students of mechanics and mathematical methods.



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'This text is a careful introduction to Euclidean geometry that emphasizes its connections with other subjects. Glimpses of more advanced topics in pure mathematics are balanced by a straightforward treatment of the geometry needed for mechanics and classical applied mathematics.' *L'Enseignement Mathématique*, 3-4 1993

'a simple, clean introduction to Euclidean and differential geometry ... It could be read by an enthusiastic sixth-former but is entirely suitable for use in a first-year undergraduate course.' Ian Stewart, *New Scientist*

'In less than 300 pages of text, the author clearly and precisely explains all (or most) of the geometry classically expected to be learned by beginning mathematics and physics students, and he does it in a thoroughly modern manner, with brief historical anecdotes and indications of practical utility, bringing in new tools as they become useful. This is an excellent new text, much to be recommended.' John H. Halton, *University of North Carolina at Chapel Hill, American Scientist*, Volume 83, 1995 January-February

### **About the Author**

John Roe is at Jesus College, Oxford.

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