



## Lectures on the Differential Geometry of Curves and Surfaces (Classic Reprint) (Paperback)

By Andrew Russell Forsyth

Forgotten Books, 2015. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Lectures on the Differential Geometry of Curves and Surfaces In the second section, consisting of chapters II - VI, the subject-matter is the properties of curves upon any general surface in space. Some classes of these curves (e.g. lines of curvature) are organically connected with the surface; they are completely determined by the elements of the surface to which they belong. Other curves, such as geodesics, have an equally organic relation with the surface; but they are not determined solely by the elements of the surface, for they can satisfy some arbitrarily assigned condition or conditions. Again, quite arbitrary curves and families of curves can be assumed upon a surface; not a little attention has been devoted to methods for constructing differential invariants which, being in value independent of parameters of reference, express the geometrical magnitudes of the curves, subject, of course, to the dominance of the intrinsic magnitudes of the surface containing the curve or curves. In the third section, consisting of chapters VII - XI, the subject-matter is surfaces in general, rather than particular configurations on surfaces. The most..



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