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forms on a contents preface 5 part1 differential topology 7 chapter1 lineara lgebra9 1 1 exterior algebra9 1 2 algebra structure9 1 3 lie algebras10 1 4 some matrix lie groups11 to differential geometry is to study spaces up to isometries thus in differential geometry our spaces are equipped with an additional structure a riemannian metric and some important concepts we encounter are distance geodesics the levi civita connection and curvature definition given a vector bundle $\pi: E \rightarrow B$ and a smooth map $f: B \rightarrow B'$ the pullback bundle f^*E defined as follows suppose E is trivialized over $U \subset B$ with transition functions $g_{\alpha\beta}$ then f^*E is trivialized over $f^{-1}(U) \subset B'$ with transition functions $f^*g_{\alpha\beta}$ $f^*g_{\alpha\beta} = g_{\alpha\beta} \circ f$ the fibre f^*E_p is $E_{f(p)}$ example differential geometry of curves and surfaces textbook 2019 download book pdf overview authors shoshichi kobayashi is the long awaited 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