

Solutions for Do Carmo Differential Form and Application

Chapter. 1

1)

Sufficiency:

If φ is alternate, then for all $v \in \mathbb{R}^2$

$$\varphi(v, v) = -\varphi(v, v) = 0$$

Necessity:

If for $\varphi(v, v) = 0$ holds, then for arbitrary $u, v \in \mathbb{R}^2$:

$$\begin{aligned} \varphi(u, v) + \varphi(v, u) &= \varphi(u + v, u + v) = 0 \\ \varphi(u, v) &= -\varphi(v, u) \end{aligned}$$

which means φ is alternate.

2)

Hint tells the solution

3)

Remark! If $\varphi_1, \dots, \varphi_n$ are 1-forms, then the exterior product $\varphi_1 \wedge \dots \wedge \varphi_n$ agrees with the k -form previously defined by

$$\varphi_1 \wedge \dots \wedge \varphi_n(v_1, \dots, v_n) = \det(\varphi_i(v_j))$$

Proof:

we define a k -form as

$$\omega(v_1, \dots, v_k) = \sum_I a_I dx_I$$

by definition, for an 1-form φ_{k+1} we have

$$\omega \wedge \varphi_{k+1}(v_1, \dots, v_k, u) = \sum_I a_I(v_1, \dots, v_k) \delta_{u_i}(u) dx_I \wedge dx_{u_i}$$

recall that

$$\omega = \varphi_1 \wedge \dots \wedge \varphi_k(v_1, \dots, v_k) = \det(\varphi_i(v_j))$$

so for the $k+1$ -form above we have

$$\omega \wedge \varphi_{k+1}(v_1, \dots, v_k, u) = \sum (-1)^s \det(\varphi_i(v_j)) \cdot (\delta_{u_i}(u) dx_{u_i})$$

where $s = 1$ or 2 according to whether permutation $I' := I + (u_i)$ is odd or even. Notice that element u_i is not in I , so that matrix $(\varphi_i(v_j))$ can be used to construct a new matrix M_{u_i} .

Solutions To Do Carmo

R Barnett



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