- Recursive from of
$$P_{n}^{m}(\omega s\theta)$$
 and $\frac{\partial P_{n}^{m}(\omega s\theta)}{\partial \theta}$

Fundamentals of Space as t Attitude Detamination

(Markley trassicis), Spainan, 2014 p384

 $P_{n}^{m}(\omega s\theta) = \frac{1}{n} \left[(2n-1) \cos \theta P_{n-1}^{m}(\omega s\theta) - (n-1) P_{n-2}^{0}(\omega s\theta) \right]$

(10.93a)

O < m < n | $P_{n}^{m}(\omega s\theta) = \cos \theta P_{n-1}^{m}(\cos \theta) + (n + m - 1) \sin \theta P_{n-1}^{m-1}(\omega s\theta)$

(10.93b)

 $P_{n}^{m}(\omega s\theta) = (2n-1) \sin \theta P_{n-1}^{m}(\omega s\theta)$
 $P_{n}^{m}(\omega s\theta) = (2n-1) \int d \cos \theta P_{n-1}^{m}(\omega s\theta) + d \cos \theta P_{n-1}^{m}(\omega s\theta)$
 $P_{n}^{m}(\omega s\theta) = \frac{1}{2! \cdot 1!} \int d \cos \theta P_{n-1}^{m}(\omega s\theta) + d \cos \theta P_{n-1}^{m}(\omega s\theta)$
 $P_{n}^{m}(\omega s\theta) = (2n-1) \int d \cos \theta P_{n-1}^{m}(\omega s\theta) + d \cos \theta P_{n-1}^{m}(\omega s\theta)$
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 $P_{n}^{m}(\omega s\theta) = (2n-1) \int d \cos \theta P_{n-1}^{m}(\omega s\theta) + d \cos \theta P_$