



# 北京理工大学

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## 本期导读





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# 我校牵头获 13 项国家级教学成果奖

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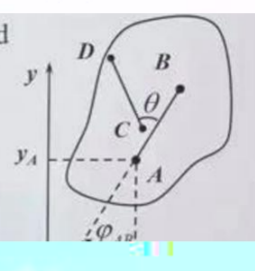


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**Chapter 10 Plane Motion of Rigid Bodies**

● In addition, the position of this plane figure can be completely defined by the position of an arbitrary line  $AB$  in the plane figure.  
The position of line  $AB$  can be defined by the coordinates  $(x_A, y_A)$  of point  $A$  and the angle  $\varphi_{AB}$ , which is the angle between line  $AB$  and x-axis.

As a result, the position of the body can be determined by following so-called **plane motion equations**,

$$\begin{cases} x_A = x_A(t) \\ y_A = y_A(t) \\ \varphi = \varphi_{AB}(t) \end{cases}$$


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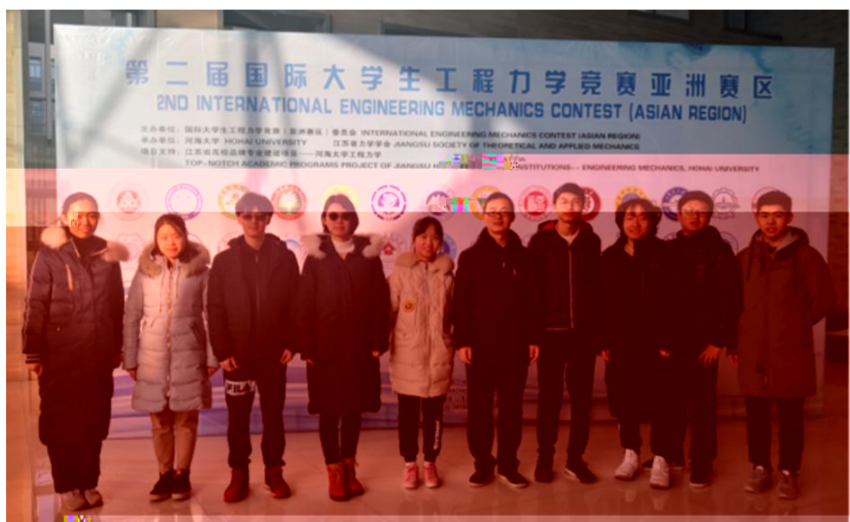
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