

# **NX for Beginners: Mastering Extrude and Revolve Features, Placed Features, and Much More!**

Are you an aspiring engineer looking to dive into the world of NX? You've come to the right place! In this comprehensive guide, we will take you through the fundamental features of NX, including Extrude and Revolve, Placed Features, and so much more. By the end of this article, you'll have a solid understanding of these tools, allowing you to create complex 3D designs with ease.

## **to NX**

NX, developed by Siemens PLM Software, is a powerful computer-aided design (CAD) software widely used in the engineering industry. It offers an extensive array of tools and features to assist engineers in designing, analyzing, and manufacturing their products. NX provides a user-friendly interface, making it accessible to beginners while also providing advanced capabilities for seasoned professionals.

## **The Extrude Feature: Bringing Your Designs to Life**

The Extrude feature is one of the key tools in NX that allows you to create 3D shapes by adding depth to 2D sketches. With just a few simple steps, you can extrude your sketches into fully formed geometries. This feature opens up endless possibilities for the design of complex components, enabling you to bring your ideas to life.

**NX 9 for Beginners – Part 2 (Extrude and Revolve Features, Placed Features, and Patterned Geometry)** by Pauline Irene Stacey (Kindle Edition)



★★★★☆ 4 out of 5

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Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 83 pages  
Lending : Enabled



## The Revolve Feature: Embrace the Power of Rotation

Another fundamental feature in NX is Revolve. This tool allows you to create rotational symmetry by revolving a sketch profile around an axis. Whether you're designing a cylindrical part or a propeller blade, the Revolve feature makes it effortless to achieve the desired symmetry while saving valuable time.

## Placed Features: Enhancing Your Designs

Placed Features provide a wide range of additional options to enhance your designs. With this feature, you can insert shapes, holes, and patterns onto existing surfaces, giving you ultimate control over your design. Placed Features offer versatility and flexibility, allowing you to fully customize and adapt your models to meet specific requirements.

## Sketched Features: The Building Blocks of Your Design

Before you can utilize Extrude, Revolve, or Placed Features, you'll need to master the art of sketching. Sketching serves as the foundation of any design in NX. By using basic tools such as lines, arcs, and splines, you can create precise and controlled sketches that form the basis for your models. By combining the

power of sketching with the features mentioned above, you'll be able to create intricate and detailed designs with confidence.

## Advanced Techniques: Taking Your Designs to the Next Level

As you become more proficient in NX, you'll uncover advanced techniques that will further elevate your design capabilities. From using sweep and loft features to creating complex assemblies and performing simulations, NX offers a vast range of tools to meet the demands of every engineer. By exploring these advanced techniques, you'll gain a deeper understanding of NX's capabilities and unlock new possibilities for your designs.

In , NX is a powerful CAD software that provides a wide range of features to help engineers bring their designs to life. Whether you're just starting or looking to refine your skills, understanding the basics of Extrude, Revolve, and Placed Features will give you a solid foundation in NX. From there, you can seamlessly progress to more advanced techniques, unlocking infinite possibilities for your designs. So, what are you waiting for? Start your NX journey today and unlock the world of limitless creativity!



### NX 9 for Beginners – Part 2 (Extrude and Revolve Features, Placed Features, and Patterned

**Geometry)** by Pauline Irene Stacey (Kindle Edition)

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## Extrude and Revolve Features

This chapter teaches you to create basic 3D geometry using the Extrude and Revolve commands.

- Extrude Features
- Revolve Features
- Datum Planes
- Additional options of the Extrude command
- View Modification commands

## Placed Features

This chapter covers the features, which can be created without using sketches.

- Hole
- Thread
- Edge Blend
- Chamfer
- Draft
- Shell

## Patterned Geometry

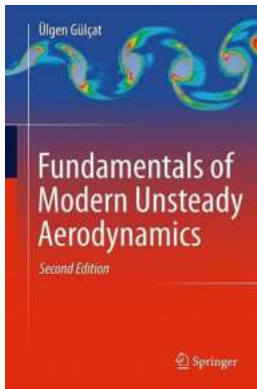
This chapter explores the commands to create patterned and mirrored geometry.

- Mirror Feature
- Mirror Geometry
- Pattern Feature



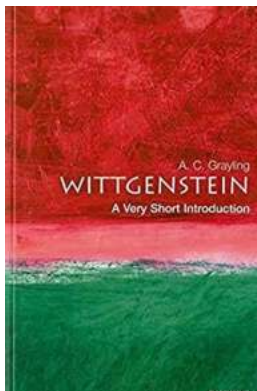
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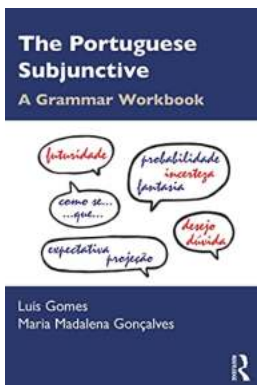
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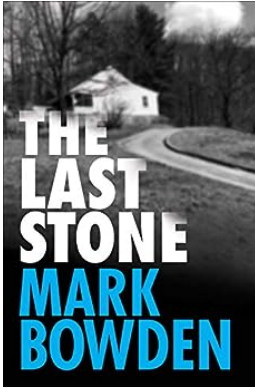
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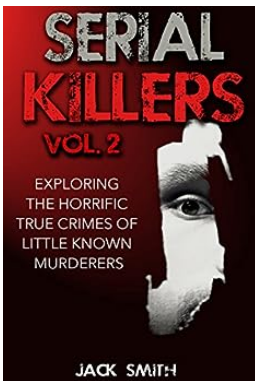
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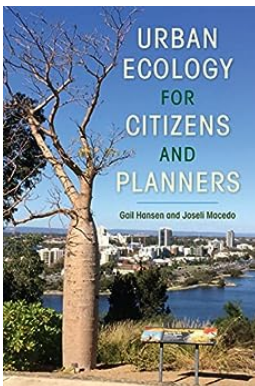
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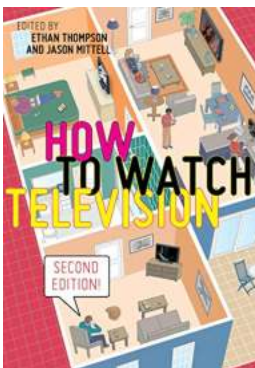
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