

WEARABLE TECHNOLOGY

Wearable technology refers to electronic devices worn on the body, integrated into fabrics for tasks like health tracking or communication. The PDF highlights contemporary wearables in fashion, blending tech with aesthetics.

KEY CONCEPTS

- **Definition:** Electronic devices incorporated into fabrics to track fitness, health, communicate with devices, or alter properties based on user preferences or surroundings.
- **Kinds:** Include smartwatches, fitness trackers, jewelry, accessories, medical devices, and clothing elements.
- **Applications:** Span professional sports, consumer goods, healthcare, navigation systems, and advanced textiles; intelligent systems use deep learning for gesture detection and feedback via illumination.
- **Interaction:** Smart textiles interact with users through computer vision and photonic textiles, enabling remote work, gesture recognition, and immediate colored feedback.

BENEFITS

- Enhances functionality, such as providing warmth or repelling water without additional layers.
- Promotes sustainability by using advanced materials that adapt rather than requiring multiple garments.
- Enables interactive experiences, like fabrics that change color or pattern based on user input or surroundings.

EXAMPLES

- **CuteCircuit:** Illuminating designs that change patterns digitally.
- **Iris Van Herpen:** Innovative couture integrating 3D printing and responsive materials.



Iris Van Herpen 2018AW Couture



CuteCircuit 2014/2015AW Ready-to-Wear