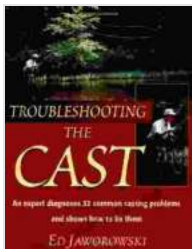


An Expert Diagnoses Of 32 Common Casting Problems And Shows How To Fix Them

Casting is a complex process, and there are many things that can go wrong. In this article, we will diagnose 32 common casting problems and show you how to fix them.

Porosity is one of the most common casting defects. It is caused by air or gas bubbles that are trapped in the metal during solidification. Porosity can weaken the casting and make it more susceptible to corrosion.

Causes of porosity:



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Them by Ed Jaworowski

★★★★☆ 4.5 out of 5

Language : English

File size : 2196 KB

Text-to-Speech : Enabled

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Print length : 96 pages



- Inadequate venting
- Gas-producing impurities in the metal
- Turbulence in the molten metal

How to fix porosity:

- Increase the venting in the mold.
- Remove gas-producing impurities from the metal.
- Reduce turbulence in the molten metal.

Shrinkage is another common casting defect. It is caused by the metal contracting as it cools. Shrinkage can lead to cracks, voids, and other defects.

Causes of shrinkage:

- Improper cooling rate
- Inadequate feeding of the molten metal
- Restraint of the casting during cooling

How to fix shrinkage:

- Control the cooling rate of the casting.
- Ensure that the molten metal is properly fed into the mold.
- Eliminate restraint of the casting during cooling.

Cold shuts occur when two streams of molten metal meet and fail to fuse together. This can create a weak spot in the casting.

Causes of cold shuts:

- Improper pouring technique

- Insufficient temperature of the molten metal
- Contamination of the molten metal

How to fix cold shuts:

- Ensure that the molten metal is poured into the mold in a continuous stream.
- Preheat the mold to the correct temperature.
- Remove any contaminants from the molten metal.

Misruns occur when the molten metal does not completely fill the mold cavity. This can be caused by a number of factors, including:

- Insufficient pouring temperature
- Inadequate gating system
- Obstructions in the mold

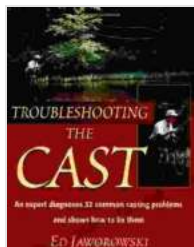
Causes of misruns:

- Insufficient pouring temperature
- Inadequate gating system
- Obstructions in the mold

How to fix misruns:

- Increase the pouring temperature.
- Improve the gating system.

- Remove any



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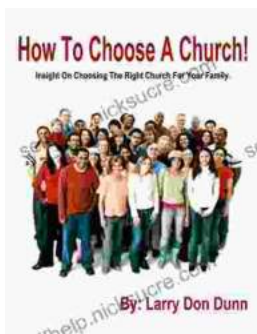
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