Peening of the welds is accomplished boy hammering

The formation of the graphite into a ball form in ductile cast iron adding MG and cerium

No post heat treatment of the weld is recommended if the carbon equivalent CE is CE<0.35

Each step in construction a TTT diagram involves austenizing and quenching the sample

Bainite is ferrite and cementite it's just acicular

They overaging mechanism in AL-CU alloys is a result of the distortion in the lattice

the weldability of plain carbon steel medium and high carbon steels are good fair poor respectively

That CCT or that TTT diagrams are used for one steal of specific composition

Blow holes in casting are formed because of entrapped gases

MARTEMPERING process is usually employed in alloy steels

Which of the following cannot be obtained using a phase diagram purity of materials

Which of the following is not a constituent off molding sand epoxy

The process that combines I-T and conventional heat treatment together is MARTEMPERING

The tensile strength TS off steel can be predicted for the steel with a composition after eutectoid composition by the following formula TS=700X%CARBON+350

BAINite is formed as a result of moderate cooling

The recommended heat treatment process for the drive half shaft for a small car is hardening

Annealing temperature is less than normalizing temperature

If the nose of the TTT diagram for an alloy is at the zero time line it is impossible to harden it

AUSTEMPERING forms a bainite structure

DENDRITE can be seen clearly in the microstructure of the castings if the alloy has impurity atoms

The cooling rate for the solution heat treatment process of AL -copper alloys is very fast

Which one of the following is not equilibrium heat treatment precipitation

The main distinct welding zones are weld metal, HAZ, and base metal

Pure iron exists in 3 ALLOTROPIC forms

The solubility limits is can be defined as maximum concentration of salute that can be added

Normalizing is best used for what kind of materials? LOW and medium carbon steel

Lost wax process is used for making items of brass and bronze

The temperature of the formation of Martensite in the CCT is the same as for TTT diagram

The solubility limit is can be defined as concentration

The slowest cooling rate is obtained when steel is quenched in air

The size of the specimen affects the hardness of steel after heat treatment as follows smaller size results are high hardness

Which one of the following is not correct martensite has a BCC structure

The addition of Mn to plain carbon steel changes the shape of phase field, the position of the boundaries of the face, the value of the eutectoid temperature

We can get tempered martensite if we reheat Martensite

BAINITIC microstructure in eutectoid plain carbon steel can be formed by using continuous cooling..... The cooling rate goes before the critical point

method of getting a mixture of pearlite p and bainite & martensite m in an eutectoid steel Cooling to a temperature above the border line of P and B, crossing the transtormation

starts line and soaking to a certain time, cooling it to below the border line, soaking to a

certain time but not to cross the transtormation ends line, then quenching

Removal of internal residual stresses at high temperatures is known as recovery

Non equilibrium phases are shown for their time and transformation using TTT and CCT diagram

Annealing of castings consists of the following sequence austenizing the solid product and then cooling it to lower critical temperature

What makes the molding sand refractory silica

The Recommended heat treatment process for the car body is annealing

Blowholes in casting are formed because of entrapped gases

That solubility limit is can be defined as maximum concentration of solute that can be added

the CCT or the TTT diagrams are used for one steal of specific composition

Austenite is a solid solution of iron and carbon

Which tempering process is used to increase the endurance and elastic limit of the material medium temperature tempering medium

Which of the following is a nonmagnetic iron austenite

The Ms temperature on the TTT diagram is a function of carbon content as follows the higher the % C, the lower the Ms temperature

the recommended heat treatment process for the hacksaw is normalizing + hardening

MINERAL oils are used in the hardening process of alloy steel

How can cracks in casting we avoided tapered edges

The absence of time effect on the face diagram gives an opportunity to get a wide range of properties

The cooling rate for the precipitation heat treatment process of al-copper alloys is no matter

Annealing of castings consists of the following sequence austenizing the solid product and then cooling it to lower critical temperature

L (4.3% C) = ϒ (2.0%) + Fe3C (6.69% C) is eutectic reaction

Flush quenching is when the liquid is poured onto the surface and into every cavity of the part at the same time to ensure uniform cooling

That ascending order of strength based on microstructure is

SPHERODITE, T martinsite, Martensite