

Abstract:

JFE S¹ a a a a a a a a-
TS780 MPa
1 470 MPa ab y a ab y
a a a y
y a a a a a a
d ab . T a- a a a a
by a y JFE S¹ y, -
a a a - a a
a y b a y a .
E a y, TS1180 MPa a a
a a a , a a . I 1.5
a a a a a a a
980 MPa, a - a ab y a a
b a a a a TS980 MPa. I
a ab - a ab y a ba - a ab y
a b a - a a .

1. Introduction

In the past, the steel industry has been a major source of CO₂ emissions. The steel industry is one of the most energy-intensive industries in the world, and it is responsible for approximately 7% of the world's CO₂ emissions. The steel industry is a major source of CO₂ emissions because of the high energy requirements of the steel-making process. The steel-making process involves the use of coke, which is a carbon-rich material that is used to reduce iron ore to iron. The steel-making process also involves the use of scrap steel, which is recycled steel that is used to produce new steel. The steel-making process is a complex process that involves many steps, and it is a major source of CO₂ emissions.

... ..

2.

... .. 780 MP, (1) (2) (3) (4)

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- (1) ...
 (2) ... 1180 MP, ...
 ... 1.5t ...
 ... 1180 MP, ...
 ... 980 MP, ... B. ...

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