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## IOP Conference Series: Materials Science and Engineering (Conference Review)

[No author name available]

### Abstract

The proceedings contain 60 papers. The topics discussed include: study on the quality of boron micro-alloyed steels destined to applications in the automotive sector; recycling of textile wastes into textile composites based on natural fibers: the valorization potential; using MODELICA for calculating the power requirements of a mid-sized city water supply pumping system; experimental studies regarding the influence of the intake manifold material on the thermodynamics processes in the internal combustion engines; pulverous ferrous waste processing by agglomeration; researches for improving mechanical characteristics of high strength weld; friction and wear characteristic of organic brake pads material; researches on the influence of slag addition and secondary treatment duration on steel quality; comparative analysis of heat recovery methods from internal combustion engines; and test bench for studying the effects of water injection inside an internal combustion engine.

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