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Development of Black Cobalt Selective Absorber on Copper for Solar Collectors

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Abstract: An eletrolyte is proposed for the deposition of black cobalt selective absorber coating on copper plate. The influence of the electrolyte composition and operating parameters on the properties of black cobalt coatings including optical properties were studied. The optimum conditions to obtain a high absorptance/emittance ratio are described.

Key Words: Black cobalt electrodeposition, solar absorber coatings.

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