



SCIENTIFIC PROCEEDINGS

*OF THE SCIENTIFIC-TECHNICAL UNION
OF MECHANICAL ENGINEERING*

Year XX

Volume 7/136

SEPTEMBER 2012

IX INTERNATIONAL CONGRESS MACHINES, TECHNOLOGIES, MATERIALS 2012

September 19 – 21 2012 VARNA, BULGARIA

IX МЕЖДУНАРОДЕН КОНГРЕС "МАШИНИ, ТЕХНОЛОГИИ, МАТЕРИАЛИ" 2012

19– 21 СЕПТЕМВИ 2012, ВАРНА, БЪЛГАРИЯ

VOLUME 3 TOM

**SYMPOSIUMS: DESIGN&ERGONOMICS.
INDUSTRIAL INFORMATICS.
GEAR TRANSMISSIONS.
MANAGEMENT**

ISSN 1310-3946