**Welding in the World**. [Volume 64, Issue 11](http://links.springernature.com/f/a/4kqGi9sEw6l9PZVYoFe1Bg~~/AABE5gA~/RgRhcSCsP0SMaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2pvdXJuYWwvNDAxOTQvNjQvMTE_dXRtX3NvdXJjZT10b2MmdXRtX21lZGl1bT1lbWFpbCZ1dG1fY2FtcGFpZ249dG9jXzQwMTk0XzY0XzExJnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMDEwMjBXA3NwY0IKADOsm45fB70KX1ISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | |  | | --- | |  | | | | | |
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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | |  | | --- | | [**» Abstract**](http://links.springernature.com/f/a/t-jJ1uj1IcnFmPihfWHZ2Q~~/AABE5gA~/RgRhcSCsP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk3MC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjAxMDIwVwNzcGNCCgAzrJuOXwe9Cl9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~)    [**» Full text HTML**](http://links.springernature.com/f/a/t-jJ1uj1IcnFmPihfWHZ2Q~~/AABE5gA~/RgRhcSCsP0ScaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMC0wMDk3MC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82NF8xMSZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjAxMDIwVwNzcGNCCgAzrJuOXwe9Cl9SEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) [**» Full text PDF**](http://links.springernature.com/f/a/ePwzRKPdBFlGfoutsUQ9Zw~~/AABE5gA~/RgRhcSCsP0SgaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjAtMDA5NzAtOD91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjRfMTEmdXRtX2NvbnRlbnQ9ZXRvY19zcHJpbmdlcl8yMDIwMTAyMFcDc3BjQgoAM6ybjl8HvQpfUhJjd3MtYW5iQGN3cy1hbmIuY3pYBAAABx4~) | | |  | | --- | | pp 1905 - 1919 | | | | |
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