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Additive Manufacturing Processes and Performance

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| Majid Farajian |

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| Johanna Müller, Jonas Hensel |

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| Lucas Fournet-Fayard, Charles Cayron, Imade Koutiri, Pierre Lapouge, Jason Guy, Corinne Dupuy, Anne-Françoise Obaton |

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| [The effects of building position on surface and fatigue of DED-arc steel components](http://links.springernature.com/f/a/h2PuOAU5TMSh-kAxa_6ZwQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzMS0wP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Jonas Hensel, Johanna Müller, Ronny Scharf-Wildenhain, Lorenz Uhlenberg, André Hälsig |

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| [An investigation of key parameters in metal additive manufacturing for robotic paths planning of large parts](http://links.springernature.com/f/a/ayJya6yLyqCB4EKq-NrkfQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ4Ny02P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Ela Mvolo, Laurent Sabourin, Didier Boisselier |

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| [Parametric modeling approach in laser wire additive manufacturing process](http://links.springernature.com/f/a/yVx0HjRKZ_VAC1-o5KdKgw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1NC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Natago Guilé Mbodj, Mohammad Abuabiah, Maxime El Kandaoui, Slah Yaacoubi, Peter Plapper |

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| [Experimental investigation and development of a deep learning framework to predict process-induced surface roughness in additively manufactured aluminum alloys](http://links.springernature.com/f/a/c1HIR3sPVjk3oenS-PqioQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ0NS04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Waqas Muhammad, Jidong Kang, Olga Ibragimova, Kaan Inal |

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| [Parametric study of melt pool geometry in hybrid plasma arc-laser melting process for additive manufacturing application](http://links.springernature.com/f/a/g3QehV8PeCIB_CK08LgIyw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3Ni05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Chong Wang, Wojciech Suder, Jialuo Ding, Stewart Williams |

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| [Wire electrode of 5754 aluminum modified by PVD-thin film depositions](http://links.springernature.com/f/a/6eawLewvYfrNiFNDG7HVvg~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzNS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| T. Gehling, K. Treutler, V. Wesling |

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| [Numerical investigation of the arc properties in gas tungsten arc–based additive manufacturing](http://links.springernature.com/f/a/trA8W4pX1D1tlAPKBggseQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3My15P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Xinxin Wang, Jia Zhang, Ying Deng, Dawei Chen, Ngoc Quang Trinh, Shinichi Tashiro, Manabu Tanaka |

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| [Heat control and design-related effects on the properties and welding stresses in WAAM components of high-strength structural steels](http://links.springernature.com/f/a/81YIJ3vZFWUdY8qxbBx8vA~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1MC14P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| R. Scharf-Wildenhain, A. Haelsig, J. Hensel, K. Wandtke, D. Schroepfer, T. Kannengiesser |

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| [Mechanical characteristics and microstructural investigation of CMT deposited bimetallic SS316LSi-IN625 thin wall for WAAM](http://links.springernature.com/f/a/2kWiYDc3ntaaZ7zKQFU0uA~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQwMy00P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Amit Motwani, Anand Kumar, Yogesh Puri, Nitin Kumar Lautre |

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| [Welding materials for TIG welding, surfacing, and WAAM technology of titanium alloys](http://links.springernature.com/f/a/__cd8IO_QtEIiXLRZbdXGQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ2NC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Serhiy Schwab, Roman Selin, Mykhailo Voron |

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| [Influence of the WAAM process and design aspects on residual stresses in high-strength structural steels](http://links.springernature.com/f/a/ifQdN1-ntEyMGaK74uIYDw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwMy05P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| K. Wandtke, D. Schroepfer, R. Scharf-Wildenhain, A. Haelsig, T. Kannengiesser, A. Kromm, J. Hensel |

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| [Chaboche viscoplastic material model for process simulation of additively manufactured Ti-6Al-4 V parts](http://links.springernature.com/f/a/0IqCdRkAJSowJOaTNwRfFw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUwNC04P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| S. Springer, B. Seisenbacher, M. Leitner, F. Grün, T. Gruber, M. Lasnik, B. Oberwinkler |

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| [Characterization and fracture toughness evaluation of the thick-walled wire arc additively manufactured low alloy steels](http://links.springernature.com/f/a/HvEpgQLLznoMZnoFsDd4sQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyNC16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Kadir Dağyıkan, Uğur Gürol, Mustafa Koçak |

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| [Effect of welding parameters on microstructure and mechanical properties of mild steel components produced by WAAM](http://links.springernature.com/f/a/IU8txe4ApV8HWsB5_lvw9g~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQyMi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Nataliia Chernovol, Fereidoon Marefat, Bert Lauwers, Patrick Van Rymenant |

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| [Hot tensile deformation and fracture behavior of wire arc additive manufactured Hastelloy C-276](http://links.springernature.com/f/a/Vq-fNfxnYJDkHec0r_jxfQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ2Mi0xP3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| A. Rajesh Kannan, Yasam Palguna, Rajesh Korla, S. Mohan Kumar, R. Pramod, N. Siva Shanmugam |

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| [Alloy modification for additive manufactured Ni alloy components—part I: effect on microstructure and hardness of Invar alloy](http://links.springernature.com/f/a/IIAe6bVe8HLbicNOx5epJw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTUxMC13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Antonia Eissel, Lorenz Engelking, René Gustus, Kai Treutler, Volker Wesling, Dirk Schroepfer, Thomas Kannengiesser |

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| [Alloy modification for additive manufactured Ni alloy components Part II: Effect on subsequent machining properties](http://links.springernature.com/f/a/UF5uqBQsjkan9JbwUhYjCA~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQzOC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Lorenz Engelking, Dirk Schroepfer, Thomas Kannengiesser, Antonia Eissel, Kai Treutler, Volker Wesling |

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| [Influence of laser metal deposition process parameters on a precipitation hardening stainless steel](http://links.springernature.com/f/a/qXXdX8IUwZCGSHBZPzfOGQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3OC03P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Gökçe Aydin, Maria Asuncion Valiente Bermejo, Mats Högström, Aydın Şelte, Christos Oikonomou, Joel Andersson |

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| [Investigations on influencing the microstructure of additively manufactured Co-Cr alloys to improve subsequent machining conditions](http://links.springernature.com/f/a/7EuWgownZzjGK60xuV1FpA~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTM5Ny16P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Antonia Eissel, Lorenz Engelking, Kai Treutler, Dirk Schroepfer, Volker Wesling, Thomas Kannengiesser |

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| [Classification of metal PBF-LB parts manufactured with different process parameters using resonant ultrasound spectroscopy](http://links.springernature.com/f/a/Lr1UVRp5BdR1Lh5-2aL5YQ~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQxOS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| Anne-Françoise Obaton, Gregory Weaver, Lucas Fournet Fayard, Florian Montagner, Olivier Burnet, Alex Van den Bossche |

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| [Development of instrumentation for eddy current in situ monitoring of laser powder bed fusion](http://links.springernature.com/f/a/iUwVsc1k114YAf7dslEBBw~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMi0wMTQ1Ni01P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| N. Sergeeva-Chollet, K. Perlin, M. Pellat |

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| Research Paper |

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| Topical Collection |

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| [A first feedback on manufacturing and in-service behaviour of a WAAM-made propeller for naval application](http://links.springernature.com/f/a/xATXz9bJosiBmUlvj-GM5Q~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) |
| C. Nota, G. Rückert, J.L. Heuzé, L. Carlino, J.M. Quenez, L. Courregelongue |

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| [**» Abstract**](http://links.springernature.com/f/a/xATXz9bJosiBmUlvj-GM5Q~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce)    [**» Full text HTML**](http://links.springernature.com/f/a/xATXz9bJosiBmUlvj-GM5Q~~/AABE5gA~/RgRmElfRP0SbaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9hcnRpY2xlLzEwLjEwMDcvczQwMTk0LTAyMy0wMTQ3NS13P3V0bV9zb3VyY2U9dG9jJnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRvY180MDE5NF82N180JnV0bV9jb250ZW50PWV0b2Nfc3ByaW5nZXJfMjAyMzA0MDdXA3NwY0IKZCHR0i9k8gyztlISY3dzLWFuYkBjd3MtYW5iLmN6WAQAAAce) [**» Full text PDF**](http://links.springernature.com/f/a/WgHOG5qrC-aH-941OGRjjg~~/AABE5gA~/RgRmElfRP0SfaHR0cHM6Ly9saW5rLnNwcmluZ2VyLmNvbS9jb250ZW50L3BkZi8xMC4xMDA3L3M0MDE5NC0wMjMtMDE0NzUtdz91dG1fc291cmNlPXRvYyZ1dG1fbWVkaXVtPWVtYWlsJnV0bV9jYW1wYWlnbj10b2NfNDAxOTRfNjdfNCZ1dG1fY29udGVudD1ldG9jX3NwcmluZ2VyXzIwMjMwNDA3VwNzcGNCCmQh0dIvZPIMs7ZSEmN3cy1hbmJAY3dzLWFuYi5jelgEAAAHHg~~) |

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