

電 気 製 鋼

特集：構造用鋼
Special Edition : Structural Steels

巻頭言 <i>Preface</i>	第84巻の発刊にあたり／羽生田智紀…………… 1 Entering the 84th Volume Tomoki Hanyuda
随想 <i>Commentary</i>	今、金属分野における産学連携の必要性／高木節雄…………… 2 Now, Urgent Collaboration between University and Company in the Metal Industry Setsuo Takaki
技術論文 <i>Technical Paper</i>	ショットピーニング処理された浸炭鋼のピッチング寿命に及ぼすシリコン添加の影響 ／山口浩平，石倉亮平，松村康志…………… 5 Effect of Silicon on Pitting Life of Carburized Steel Treated by Shot Peening Kohei Yamaguchi, Ryohei Ishikura, and Yasushi Matumura
	真空浸炭時の鋼材表層部における結晶粒粗大化挙動に及ぼすAIN量の影響 ／安東知洋，森田敏之，井上圭介…………… 13 Effect of AIN Content on Grain Growth Behavior at Surface Layer of Steel during Vacuum Carburizing Tomohiro Ando, Toshiyuki Morita, and Keisuke Inoue
	肌焼鋼のガス浸炭性に及ぼす酸化層の影響／寺田紘樹，森田敏之，宮崎貴大…………… 21 Effect of Oxidation Layer on Gas Carburizing Performance in Case-Hardening Steel Hiroyuki Terada, Toshiyuki Morita, and Takahiro Miyazaki
技術資料 <i>Technical Data</i>	肌焼鋼の塑性変形特性に及ぼす球状化焼なまし条件の影響／針谷誠，森田敏之…………… 31 Effect of Spheroidizing Annealing Condition on Plastic Deformability in Case-Hardening Steel Makoto Haritani, Toshiyuki Morita
	Mo-V添加低炭素ベイナイト鋼の軟窒化特性に及ぼす時効処理条件の影響 ／山崎歩見，宮崎貴大，増田大樹…………… 39 Effect of Aging Conditions on Nitrocarburizing Characteristics for Mo and V Added Low Carbon Bainitic Steel Ayumi Yamazaki, Takahiro Miyazaki, and Hiroki Masuda
	軟窒化した中炭素フェライト・パーライト鋼の残留応力に及ぼす化合物層の影響／神谷啓一郎…………… 47 Effect of Compound Layer on Residual Stress of Nitrocarburized Medium Carbon Ferritic-Pearlitic Steel Keiichiro Kamiya
	水素脆性型の転動疲労強度に及ぼす侵入水素の影響／木南俊哉…………… 55 Effect of Hydrogen on Rolling Contact Fatigue Phenomena due to Hydrogen Embrittlement Toshiya Kinami
製品紹介 <i>Products</i>	スリムバッチ真空浸炭炉“シンクロサーモ”…………… 61 Slim-Batch Type Vacuum Heat Treatment Furnace “SynthroTherm [®] ”
	環境に貢献する大同の肌焼鋼…………… 67 Daido's Case-Hardening Steels for Environment
	高強度浸炭窒化用鋼…………… 71 High Strength Steel for Carbonitriding

